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BULLETIN No. 91-15

WATER WELLS AND SPRINGS IN BORREGO, CARRIZO, AND SAN FELIPE VALLEY AREAS

SAN DIEGO AND IMPERIAL COUNTIES CALIFORNIA

Prepared by
United States Department of Interior
Geological Survey

FEDERAL-STATE COOPERATIVE GROUNDWATER INVESTIGATIONS

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JANUARY 1968

RONALD REAGAN
Governor
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Director
Department of Water Resources

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Department of Water Resources

This report is one of a series, prepared by the U.S. Department of the Interior, Geological Survey, Water Resources Division, which presents basic data on wells and springs obtained from reconnaissance surveys of desert areas. These investigations are made by the Geological Survey under a cooperative agreement whereby funds are furnished equally by the United States and the State of California. The reports in this Bulletin No. 91 series are being published by the Department of Water Resources in order to make sufficient copies available for use by all interested agencies and the public at large. Earlier reports of this series are:

Bulletin No. 91-1: Data on Wells in the West Part of the Middle Mojave Valley Area, San Bernardino County, California

91-2: Data on Water Wells and Springs in the Yucca Valley-Twentynine Palms Area, San Bernardino and Riverside Counties, California

91-3: Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area, San Bernardino County, California

91-4: Data on Water Wells in the Willow Springs, Gloster, and Chaffee Areas, Kern County, California

91-5: Data on Water Wells in the Dale Valley Area, San Bernardino and Riverside Counties, California

91-6: Data on Wells in the Edwards Air Force Base Area, California

91-7: Data on Water Wells and Springs in the Chuckwalla Valley Area, Riverside County, California

91-8: Data on Water Wells and Springs in the Rice and Vidal Valley Areas, Riverside and San Bernardino Counties, California

91-9: Data on Water Wells in Indian Wells Valley Area, Inyo, Kern, and San Bernardino Counties, California

91-10: Data on Wells and Springs in the Lower Mojave Valley Area, San Bernardino County, California

91-11: Data on Water Wells in the Western Part of the Antelope Valley Area, Los Angeles and Kern Counties, California

91-12: Data on Water Wells in the Eastern Part of the Antelope Valley Area, Los Angeles County, California

91-13: Water Wells and Springs in Soda, Silver, and Cronise Valleys, San Bernardino County, California

91-14: Water Wells and Springs in Bristol, Broadwell, Cadiz, Danby, and Lavic Valleys and vicinity, San Bernardino and Riverside Counties, California

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division
District Office
345 Middlefield Road
Menlo Park, California, 94025

October 16, 1967

Mr. William R. Gianelli, Director
Department of Water Resources
State of California--Resources Agency
Post Office Box 388
Sacramento, California, 95802

Dear Mr. Gianelli:

We are pleased to enclose, for publication by the Department of Water Resources, the U.S. Geological Survey report on "Water Wells and Springs in Borrego, Carrizo, and San Felipe Valley Areas, San Diego and Imperial Counties, California," by W. R. Moyle, Jr.

This report--one of a series on the desert region of southern California--was prepared by our Garden Grove subdistrict office, in accordance with the cooperative agreement between the State of California and the U.S. Geological Survey. It tabulates all available data on wells and springs in the indicated area and contains maps showing the location of wells and springs and the reconnaissance geology with special reference to the water-yielding deposits.

Very truly yours,

R. Stanley Lord

R. Stanley Lord
District Chief

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ABSTRACT

This report is one of a series prepared by the U.S. Geological Survey in accordance with a cooperative agreement with the Department of Water Resources. It tabulates all available data on water wells and springs in the Borrego, Carrizo, and San Felipe Valley areas of the southern California desert region. It also contains maps showing the location of wells and springs and the reconnaissance geology with special reference to the water-yielding deposits.

WATER WELLS AND SPRINGS IN BORREGO, CARRIZO, AND SAN FELIPE VALLEY AREAS, SAN DIEGO AND IMPERIAL COUNTIES, CALIFORNIA

By W. R. Moyle, Jr.

PURPOSE AND SCOPE OF THE WORK AND REPORT

The data in this report were collected by the U.S. Geological Survey as a part of the investigation of water wells and springs and the general hydrologic conditions throughout much of the desert region of southern California. The study was made in cooperation with the California Department of Water Resources.

The desert regions of California are characteristically nearly barren mountain ranges and isolated hills surrounding broad alluvial valleys. The valley areas generally contain ground water that has a wide range in chemical quality, but much of the water can be, and has been, developed for beneficial use.

The general objective of the cooperative investigation is to collect and tabulate all available hydrologic data for the individual desert basins in order to provide public agencies and the general public with data for planning water utilization and development work and for use in the overall ground-water investigation of the area.

Accordingly, the scope of the work includes: (1) A brief reconnaissance of major geologic features to determine the extent and general character of the deposits that contain the ground water; (2) a field examination of almost all water wells and springs in the area to determine their location with respect to the public land net and to local geographic and cultural features; to record well depths and sizes, types and capacities of pumping equipment, uses of the water, and other pertinent information available at the well or spring site; (3) measurement of the depth to the water surface below an established and described measuring point at or near the land surface; (4) selection of representative wells to be measured periodically to detect and record changes of water level; and (5) collection and tabulation of well and spring records, including well logs, water-level measurements, chemical analyses, and pumping-test data.

The work was under the general supervision of Walter Hofmann and R. Stanley Lord, successive district chiefs in charge of water-resources investigations in California, and under the immediate supervision of L. C. Dutcher, chief of the Garden Grove subdistrict office. The fieldwork was carried on intermittently between July and August 1966 from the Garden Grove subdistrict office of the Water Resources Division.

LOCATION AND GENERAL FEATURES OF THE AREA

As described in this report, the Borrego, Carrizo, and San Felipe Valleys have a total area of about 1,200 square miles, approximately between long 116°00' and 116°37' W. and lat 32°45' and 33°26' N. (fig. 1). The approximate boundaries of the area are the San Diego-Riverside county line on the north; long 116°00' E., on the east; lat 32°45' N., on the south; and long 116°30' E. and the crest of the In-ko-pah Mountains, on the west. About half the area lies within the Anza-Borrego State Park. Access is by State Highway 78 and numerous paved and unpaved county roads.

Borrego Springs, Julian, and Ocotillo Wells are the principal towns; however, many other small settlements are scattered throughout the area.

The base maps (figs. 2 and 3) were compiled from all or parts of U.S. Geological Survey topographic quadrangle maps, scale 1:62,500, as follows: Borrego, Borrego Mountain, Carrizo Mountain, Clark Lake, Mount Laguna, Rabbit Peak, and Santa Ysabel.

The drainage basins are tributary to the Salton Sea which is east of the area, but part of the area has internal drainage. Coyote Creek, in the northern part of the area, is the major perennial stream. Some small perennial streams are fed by springs. Water in most of the smaller streams flows only a short distance toward the valley from the mountain front before it either evaporates or percolates into the alluvial deposits.

The principal landforms are large alluvial fans which extend into the basins from the surrounding mountains. The mountain areas are composed of granitic, metamorphic, sedimentary, and volcanic rocks which yield only small quantities of water to wells and springs. These rocks underlie a large part of the catchment area of the watershed but are of little importance with respect to the water supply. The lower parts of the valleys are occupied by playas which are usually dry, except during and for a short time after infrequent periods of precipitation and stream runoff.

PREVIOUS WORK AND ACKNOWLEDGMENTS

Data on ground water in the Borrego, Carrizo, and San Felipe Valley areas are in several reports by the U.S. Geological Survey, the U.S. Department of Agriculture, and the California Division of Mines and Geology. Some information can be found also in masters theses on file at the University of Southern California, Los Angeles.

The geology was compiled and modified by W. R. Moyle, Jr., from unpublished mapping in the Borrego, Borrego Mountain (formerly called Barrel Springs quadrangle), Carrizo Mountain, Clark Lake, and the Rabbit Peak quadrangles by T. W. Dibblee, Jr., and from unpublished and published mapping by Richard Merriam (1958) in the Mount Laguna and Santa Ysabel quadrangles. Geologic mapping in the northeast quarter of the Carrizo Mountain quadrangle by Duane D. Smith, in the Borrego Mountain quadrangle by Earl R. Morley, Jr., and in the northeast part of the Mount Laguna quadrangle (Agua Caliente Springs quadrangle) by Glen Neil Buttram, was also used. These geologic maps are all from unpublished masters theses, the University of Southern California, Los Angeles.

The cooperation of these geologists, the staff of the Department of Paleontology, Los Angeles County Museum, many well owners, drillers, and others who contributed materially to the completeness of the data presented in this report is gratefully acknowledged.

GEOLOGIC AND HYDROLOGIC FEATURES OF THE AREA

Geologic Units and Their Water-Bearing Character

The geologic formations in the Borrego, Carrizo, and San Felipe Valley areas have dissimilar water-bearing characteristics but, in general, the deposits of late Tertiary and Quaternary age are more permeable than the older rocks of pre-Tertiary and late Tertiary age. The Quaternary deposits generally underlie the valleys and contain much of the ground water stored in the area. Rocks of pre-Tertiary age form the mountains and hills, underlie the water-bearing deposits, and form the boundaries of the ground-water basin; these rocks are nearly impermeable, but are important because the mountains and hills receive the major part of the precipitation within the drainage area. It is the runoff from the mountains and hills that contributes most of the recharge to the ground-water body in the unconsolidated deposits.

The oldest unit in the area is the basement complex composed of granite, schist, and gneiss, all of pre-Tertiary age. The basement complex is generally impermeable, but fractures and weathered zones yield small quantities of water to wells.

The older continental rocks of Miocene age are the Split Mountain Formation of Tarbet and Holman (1944) and the Fish Creek Gypsum of Dibblee (1954). The age of the Split Mountain Formation, originally considered Miocene(?) by Tarbet and Holman (1944), is now assigned to the Miocene because it underlies and overlies Miocene units. The Split Mountain Formation is composed of gray, granitic conglomerate; dioritic breccia; hard buff sandstone; and red, arkosic sandstone. The Fish Creek Gypsum, deposited mostly in playas, is composed of silt, clay, and white beds of gypsum and anhydrite. No wells penetrate this unit; it probably would not yield water of quantities usable for irrigation.

The volcanic rocks, of Miocene age, consist entirely of the Alverson Andesite Lava of Dibblee (1954) which is dark-brown, andesitic lava. This unit overlies the Split Mountain Formation and underlies the Fish Creek Gypsum. No wells penetrate the volcanic rocks; they probably would not yield much water to wells.

The marine rocks probably range in age from late Miocene to early Pliocene on the basis of fossil camel bones found embedded in oyster and mollusk shells in the NE¼ sec. 32, T. 11 S., R. 9 E. The age of the fossil was determined by the staff of the Los Angeles County Museum. Other fossils described by Hanna (1926) also indicate the same age range. The marine rocks include the Imperial Formation (Hanna, 1926), composed of gray to yellow claystone, buff sandstone, and oyster shells, other mollusks, and corals. Some deep oil-test holes have been drilled into the marine deposits, but none are known to have produced large quantities of fresh water.

The younger continental deposits, of Pliocene and Pleistocene age, include the Canebrake Conglomerate of Dibblee (1954), the Palm Spring Formation (Woodring, 1931), the Borrego Formation of Tarbet and Holman (1944), and the Ocotillo Conglomerate of Dibblee (1954). The Canebrake Conglomerate is composed mainly of gray pebbles and cobbles. The Palm Spring Formation consists of arkosic sandstone and red clay. The Borrego Formation is composed of light-gray lacustrine claystone, siltstone, and minor amounts of buff sandstone. The Ocotillo Conglomerate is composed of gray conglomerate and fanglomerate. Many deep wells in Borrego Valley having large yields probably penetrate the upper part of this unit. Available data indicate that the water is probably of good chemical quality.

The older alluvium, of Pleistocene age, underlies most of the valley floor and is overlain by a veneer of younger material. The older alluvium consists mainly of moderately sorted gravel, sand, silt, and clay. It is oxidized and generally unconsolidated, but in some places it is slightly cemented. This unit is permeable, extends below the water table in most areas, and, where saturated, yields water freely to wells. It is the principal water-bearing unit in the valley areas.

The older fan deposits, of Pleistocene age, are composed of unconsolidated to moderately consolidated sand, gravel, and boulders derived from the granitic and metamorphic rocks. Where saturated, the deposits yield water to wells.

The younger alluvium, of Recent age, consists of unconsolidated gravel, sand, silt, and clay. Deposition is taking place presently in the valley areas during times of infrequent precipitation. This unit is permeable and, where saturated, will yield some water to wells. However, it is thin and usually is above the water table. Although it transmits water from the intermittent streams to the ground-water body, it is not an important water-bearing unit.

The younger fan deposits, also of Recent age, consist of sand, gravel, and boulders derived from the local mountain areas. The deposits are generally very poorly sorted. This unit, generally above the regional water table, is not an important water-bearing unit.

The playa deposits, of Recent age, are composed of clay with some sand and silt. Of the playas shown in figures 2 and 3 only the Borrego Sink was a discharging playa in the recent past, having water levels at or near land surface. However, at the present time water levels are below land surface. Where saturated, this unit yields some water to wells.

The sand deposits, of Recent age, are composed of actively drifting fine to medium sand. In parts of the area this unit is saturated and yields small quantities of water, usually of inferior chemical quality.

The lake deposits, of Recent age, are composed of alternating beds of sand and clay. These deposits presumably were laid down in ancient Lake Cahuilla which formerly covered a large part of Imperial and Coachella Valleys. Where saturated, this unit would probably yield moderate quantities of water to wells.

Recharge and Discharge of Ground Water

Recharge to the ground-water body of the area occurs by direct infiltration of rain, subsurface flow from the adjoining areas, and percolation of infrequent runoff during flash floods in the surrounding mountain areas. Rainfall in Borrego Valley ranges from 2 to 6 inches annually, but in the mountain area near the town of Julian it ranges from 19 to 24 inches. Well measurements made during the period 1952-65 indicate that a significant decline in water levels has occurred in the area north of the Borrego Sink in Borrego Valley. Declines have been as great as 35 feet.

Ground water in the area east of Julian flows from San Felipe and Earthquake Valleys to the east beneath San Felipe Creek. This water enters Borrego Valley and flows eastward toward the Salton Sea. Ground water in Mason Valley flows eastward through Vallecito and Carrizo Valleys, and beneath Carrizo Wash toward the Salton Sea.

GEOPHYSICAL INVESTIGATION

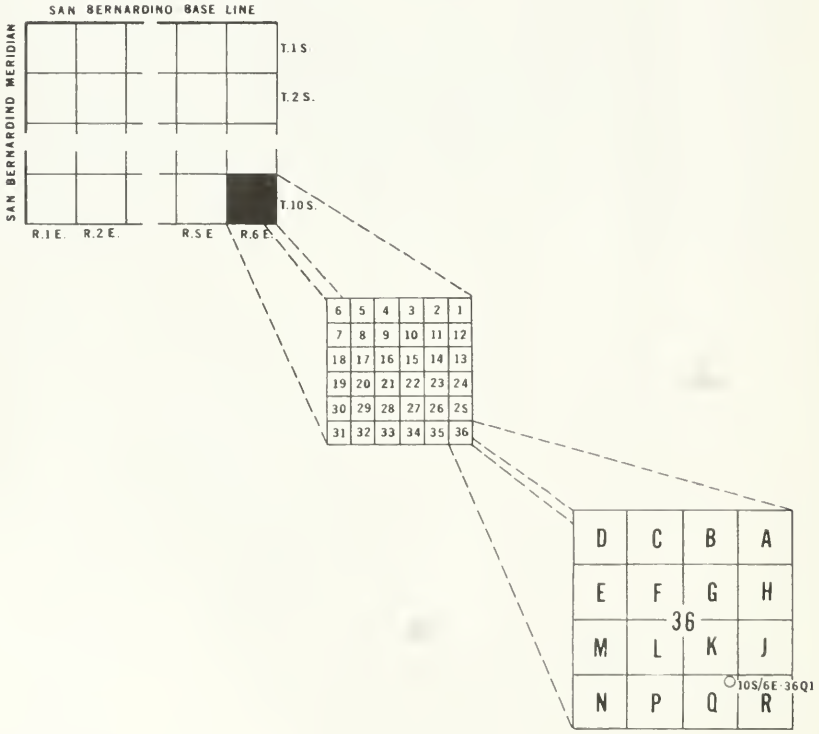
The geophysical traverses shown in figures 2 and 3 were made to detect faulting in areas covered by alluvium. These faults act as barriers to the movement of ground water in the alluvium. The exact position of the fault is needed to determine direction of ground water flow. During the investigation, sixteen magnetometer traverses were made with a Schmidt-type magnetometer (NR 97109).

The sensitivity of the instrument used is 17.6 gammas per scale division. The data were not reduced to a regional datum because isolated profiles were not related to a common base station. The data in each case were used to determine local discontinuities in the magnetic field, presumably caused by faulting.

The data used for projecting faults across the alluvial-filled basins can be seen at the U.S. Geological Survey office in Garden Grove, Calif.

WELL- AND SPRING-NUMBERING SYSTEM

Wells and springs are assigned numbers according to their location in the rectangular system for the subdivision of public land. For example, as shown in the accompanying diagram, in the number 10S/6E-36Q1 the part of the number preceding the slash indicates the township (T. 10 S.), the part between the slash and the hyphen indicates the range (R. 6 E.), the number between the hyphen and the letter indicates the section (sec. 36), and the letter indicates the 40-acre subdivision of the section.



Within the 40-acre tract wells are numbered serially, as indicated by the final digit. Thus, well 10S/6E-36Q1 is the first well to be listed in the SW¼SE¼ sec. 36, T. 10 S., R. 6 E., San Bernardino base line and meridian. Springs are numbered similarly except that an S is placed between the 40-acre subdivision letter and the final digit, as shown in the following spring number: 9S/5E-5DS1.

The letter Z, substituted for the letter designating the 40-acre tract, indicates the well was plotted from unverified descriptions; the described locations of such wells were visited, but no evidence of a well could be found.

There are a few exceptions to this system of numbering wells according to their position in the 40-acre subdivision of the section. These are wells which, usually having long periods of record, were assigned numbers based on earlier, less accurate maps. During this investigation, these wells have been plotted at the correct location on the map, but the old number has been retained to facilitate use of the older records for the well.

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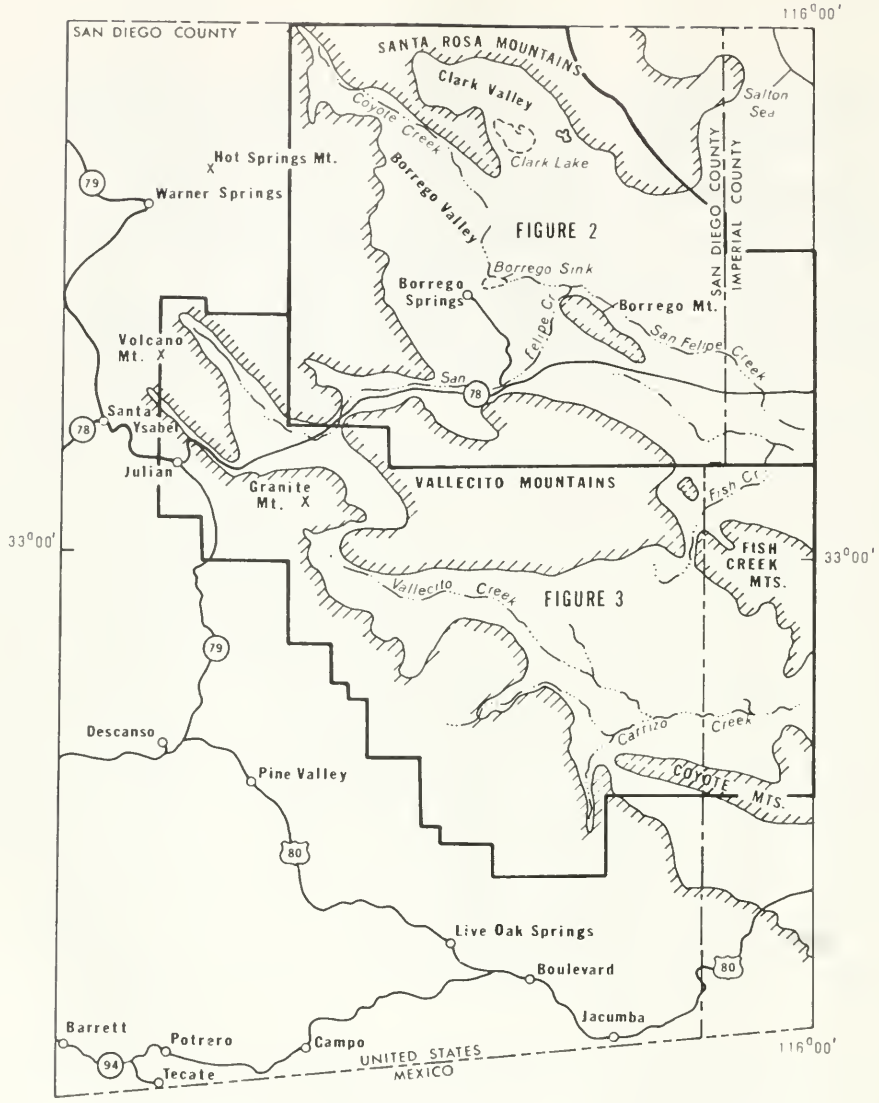

MAP OF PART OF SOUTHERN CALIFORNIA

SHOWING AREA COVERED BY THIS REPORT

APPENDIX A

TABLE 1. DESCRIPTION OF WELLS AND SPRINGS IN BORREGO, CARRIZO, AND SAN FELIPE VALLEY AREAS, SAN DIEGO AND IMPERIAL COUNTIES, CALIFORNIA

Table 1.--Description of wells and springs in Borrego, Carrizo, and San Felipe Valley areas, San Diego and Imperial Counties, California

State well number: The number given is the U.S. Geological Survey number assigned to the well or spring according to the method described in the section on the well- and spring-numbering system.

Other numbers and source of data: The source of data on each line is indicated by the following symbols: D driller; DA U.S. Department of Agriculture; DGO California Division of Gas and Oil; DWR California Department of Water Resources; GS U.S. Geological Survey; HE letter from the hydraulic engineer; I Ellis and Lee (1919); JSB Brown (1923); M Mendenhall (1909); O owner; P pump company; W Bradshaw and Donnan (1952).

Date of observation: Data for each well or spring are presented in reverse chronological order, with the most recent well canvass information summarized on the top line, opposite the well or spring number. Where only the year is shown, no date was given in the source reference.

Owner or user: The owner or user of the well or spring is listed along with the number or name he assigned to the well or spring.

Year completed: The completion date was obtained from the driller's log, owner, or others.

Depth: Depths of wells and springs given in whole feet were reported by owners, drillers, or others; depths given in feet and tenths of a foot were measured below land-surface datum by the Geological Survey.

Type and diameter: The type of well construction is indicated by the following symbols: C cable-tool drilled; D dug by hand; R rotary drilled. The number following the letter is the diameter of the casing, in inches. For an unsymmetrically dug well, only the maximum dimension is given. N indicates no casing.

Type of pump and power: The type of pump is indicated by the letter symbols: C centrifugal; J jet; L lift; N none; S submersible; Si siphon; T turbine. Horsepower, where known, is given only for electric motors; D diesel; E electric; G gasoline; Gr gravity; H human; N none; and W wind.

Use: The use of the well or spring is indicated by the following symbols: Dm domestic; Ds destroyed or dry; In industrial; Ir irrigation; Ps public supply; S stock; T test hole, not cased; and Un unused.

Measuring point: The point from which water-level measurements are made by the Geological Survey is described as follows: Alg air-line gage; Bhc bottom of hole in casing; Bpb bottom of pump base; Hpb hole in pump base; Lsd land-surface datum; Tap top of access pipe; Tc top of casing; Tcc top of casing cover; Tf top of flange; and Tpb top of pump base. All Geological Survey measurements are from the same measuring points unless otherwise indicated.

Altitude: The altitude given is the altitude, in feet above mean sea level, of the land-surface datum, the plane of reference, at the well or spring. Altitudes, given to the nearest foot, were interpolated from Geological Survey topographic maps having 40- and 80-foot contour intervals.

Water level: Measured depths to water are given in feet, tenths of a foot, and hundredths of a foot, or feet and tenths of a foot; reported or approximate depths to water are given in whole feet. All measurements are given from land-surface datum and have had the distance between the measuring point and land surface subtracted or added, depending on whether the measuring point is above or below (-) land-surface datum. A plus (+) indicates the water level is above land-surface datum.

Other data: C chemical analyses of water from wells and springs are given in table 3; L drillers' logs of wells are given in table 4; P pumping tests of wells and springs are listed in table 5; W water-level measurements for wells which have five or more measurements are listed in table 2.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 9 S., R. 5 E.														
9S/5E-7D[illegible]	GS	1-[illegible]-66	Anza-Borrego State Park, Middle Willows						S			1,925	(n)	C,P
[illegible]2F[illegible]	GS	8- 1-65	Anza-Borrego State Park						S			1,240	(n)	P
[illegible]2G[illegible]	GS	8- 1-65	Anza-Borrego State Park						S			1,240	(n)	P
[illegible]2K[illegible]	GS	8- 1-65	Anza-Borrego State Park, Santa Catarina Spring						S			1,240	(n)	C,P
T. 9 S., R. 6 E.														
9S/6E-6M[illegible]	GS	7-[illegible]-65	Anza-Borrego State Park, Hidden Spring						Un			2,280	(a)	C
6R[illegible]	GS	8-[illegible]-65	Anza-Borrego State Park						Un			2,280	(a)	
36A[illegible]	GS	7-[illegible]-65			207.[illegible]		12 N N		Un	Tcc	2.5	570	16.83	W
	GS	11-18-[illegible]3	Ed Dickerson	1953	334		12 N N		Un					
T. 9 S., R. 7 E.														
9S/7E-28N1	GS	7-22-65	Gilbert Rock		0		N N N		Ds			565		
	GS	11-17-53				D	10 L H		Ds					
28[illegible]	GS	7-22-65	Gilbert Rock		b150	C	10 N N		Un	Tc	0	565	15.[illegible]3	P
	GS	3-15-57			16.5	D	36 N N		Un				15.57	
28N3	GS	7-22-65	Gilbert Rock		31	D	4 C G		Dm			565	15	C,P
	GS	3-1[illegible]-57			31		4 C G		Dm				15	
28N4	GS	7-22-65	Gilbert Rock		80	C	12 T G		Dm	Tc	0	565	22	
29R1	GS	8- [illegible]-65		1904	1.5	D	8 N N		Ds	Tc	1.0	564		
	M-353	1909	Clark Well											
	[illegible]	1904			29									
31C1	GS	7-[illegible]-65			20.5		6 N N		Un	Tc	1.5	570	17.61	
33B1	GS	7-22-65	Chafee C. Young				c4 S [illegible]		Dm	Tcc	1.0	570	22.18	
	GS	11-18-53	Thompson		60	D	42 J [illegible]		Dm	Tc	1.0		(d)	
33B2	GS	7-22-65		1961	750	C	12 N N		Un	Tc	2.0	570	20.16	

 See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 9 S., R. 8 E.														
9S/8E-31DS1	GS	7-22-65	Anza-Borrego State Park, Rattlesnake Spring									2,960	dry	C
T. 10 S., R. 5 E.														
10S/5E-25R1	GS	7-21-65	Anza-Borrego State Park				S 20		Ps	Tap	2.8	725	258.77	C,L,P
	GS	11- 9-54		1954	490	R 12			Un				238.85	
36A1	GS	7-21-65	Anza-Borrego State Park		322.0	16	N N		Un	Hpb	1.2	720	245.20	C,P
	GS	11-14-53		b1949	350	C	T 10		Ps				213.4	
	DWR	2-26-53											209	
T. 10 S., R. 6 E.														
10S/6E-1A1	GS	7-21-65	Archie Davis			12	T G		Un	Tc	5.0	555	16.24	
5F1	GS	7-26-65	Myron Smith		702	R 16	T 125		Ir	Bhc	1.0	800		C,L,P
	GS	6-26-52	Fazio	1951	702	R 16	T 150						e274	
	D	10- -51	Fazio Bros.	1951	702	R 16							274	
8A1	GS	7-26-65	Myron Smith			16	T 150		Un			780		C,L,P
	GS	11-17-53	Flying M Ranch	1952	624	R 16	T 150		Ir					
	GS	4- -53											256	
8B1	GS	7-23-65	Myron Smith			16	N N		Un	Tcc	3.25	760	278.10	W
	GS	6-26-52	Flying M Ranch	1945	690	16	T 150		Ir					
8L1	GS	7-26-65			52.0	8	N N		Ds	Tc	1.0	720	dry	
8P1	GS	7-26-65	Virginia Pfieffer		648	14	T 75		Un	Hpb	.7	720	(f)	L,P
8Q1	GS	7-26-65	W. C. Schmill		3.0				Ds			720		
	GS	11- 9-54			206.5								dry	
	GS	11-17-53			223.0				Un	Tc	0		218.45	
	GS	6-27-52	H. A. Bernard			12			Un					
9R1	GS	7-26-65	J. Worona			16	S 10		Un			716		
	GS	6-27-52	Widliska	1937					Ir					
9E1	GS	7-26-65	Myron Smith				S 4		Dm			720		P
	GS	6-27-52	Berclud Bros.	1945	350	C 16	T 40		Dm	Tc	.02		226.55	
9F1	GS	7-26-65	James H. Seley	1951		16	T 100		Ir			715		L,P
	GS	6-26-52	H. Walrond	1951	783	R 16	T 100		Ir					
	D	6- 1-51		1951	783								200	

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See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
23S/32E-.., R. .. L.--Continued														
23S/32E-9L	GS	7-26-65	Stuart Moore			16	T [illegible]		U.	Tap	1.5	71[illegible]	[illegible].39	P
	GS	12- 7-54	Bill Hoppe	1954	694	R 14	T 100		Ir					
9N1	GS	7-26-65	Sam Fortiner	1949	560	16	T [illegible]		Ir	Bpb	[illegible]	71[illegible]	267.89	C,L,P
	GS	11-[illegible]											212.9	
	GS-16D1	6-27-52	Sam Fortiner	1949	634	16	T D		Ir					
[illegible]	GS	7-26-65	Sam Fortiner		0	N	N N		Ds			71[illegible]		
	GS	6-27-52	Sam Fortiner		210.0	12			D.				dry	
10L1	GS	7-26-65	James H. Seley			16	T [illegible]		Ir			690	(g)	P
	GS	11- 8-54	W. A. Marovich	1954		14	T [illegible]		Ir				(g)	
14M1	GS	7-26-65	Stuart Moore	1951		16	T 125		Ir			[illegible]	(g)	L,P
	GS	6-27-52	W. A. Marovich	1951	762	R 16	T 100		Ir				(g)	
	D	6- -51		1951	762								2[illegible]	
14G1	GS	7-28-65	John W. Hanna	1949	420	12	L N		Un	Tcc	4.3	620	123.91	L
	GS	11-[illegible]-53		1949	420	12	L N		Un				107.8	
14M1	GS	7-28-65	Frances Benton						Ds			[illegible]20		
	GS	11-19-53	Jim Tillery	1944	416	12	T G		Un					
15D1	GS	7-[illegible]-65	DiGiorgio Fruit Corp., well 11		712	R 16	T 100		Ir			66[illegible]	(g)	P,L,P
	GS	6-24-[illegible]		1946	712	R 16	T 100		Ir	Tc	.5		(g)	
15D[illegible]	GS	7-[illegible]-65	DiGiorgio Fruit Corp., well 14			16	T 100		Ir	Bhc	[illegible]	66[illegible]	[illegible].[illegible]	C,L,P
	GS	6-24-[illegible]		1952	700	16	T 100		Ir				(g)	
16K1	GS	7-[illegible]-65			130.0	14	N N		Ds			660	dry	
	GS	11-[illegible]-[illegible]											172.9	
	GS	6-27-52	H.A. Bernard		430	14	N N		Un	Tc	[illegible]		[illegible].[illegible]	
16M1	GS	7-23-65	DiGiorgio Fruit Corp., well 15			16	T 100		Ir	Bhc	.7	661	(g)	C,L,P
	GS	6-[illegible]-[illegible]		1950	797	R 16	T 100		Ir				(g)	
17C1	GS	6-26-52	Borrego Co-op Farms	1951	553	R 14	T E		Ir	Hpb	.7	710	214.21	L,P
	D	[illegible]- -51		1951	558								204	
17J1	GS	8- 9-65	DiGiorgio Fruit Corp.,			16	T 100		Un	Bhc	.4	660	211.71	C,P,W
	DWR	1-[illegible]-55	well 12		612	16								
	GS	6-[illegible]-56				16	T 130		Ir				(g)	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. [illegible] S., R. [illegible] W.--Continued														
[illegible]	[illegible]	[illegible]	Dinuba Fruit Corp., well 2				16 T [illegible]		Ir	Tc	0	66[illegible]	(g)	C,P
	[illegible]	11-[illegible]		19[illegible]	[illegible]	R	16 N N		Un				19[illegible].13	
	D	[illegible]		[illegible]	7[illegible]								19[illegible]	
[illegible]	[illegible]	[illegible]					N N N		Ds			640		C,P
	[illegible]	[illegible]			5[illegible]								17[illegible]	
	[illegible]	[illegible]	Dr. Ronald	19[illegible]	63[illegible]		16 T 75		Ir	Bhc	.3		(c)	
17L1	[illegible]	[illegible]					N N N		Ds			67[illegible]		
	[illegible]	11- [illegible]								Tap	1.9		18[illegible].74	
	[illegible]	11-[illegible]			301								179.[illegible]	
	[illegible]	[illegible]	Kuhrt	[illegible]	[illegible]	R	16 T [illegible]		Ir	Tc	1.[illegible]		17[illegible].50	
[illegible]	[illegible]	[illegible]	Borrego Springs Water Co., well 3	19[illegible]	63[illegible]	R	14 T [illegible]		Ps	Tap	1.[illegible]	6[illegible]	(e)	[illegible]
[illegible]	[illegible]	[illegible]	Borrego Valley Improvement Co., well [illegible]		[illegible]		14 T [illegible]		Ir			63[illegible]		C
[illegible]	[illegible]	[illegible]	Borrego Springs Water Co., well [illegible]		[illegible]		14 T [illegible]		Ir			63[illegible]	(g)	
	[illegible]	11-[illegible]	Borrego Valley Golf and Improvement Co.	19[illegible]	730	R	14 N N		Un				1[illegible]	
[illegible]	[illegible]	[illegible]	Dinuba Fruit Corp., well [illegible]				[illegible] T [illegible]		Un	Bhc	.4	66[illegible]	(f)	C,L,P
	[illegible]	[illegible]		19[illegible]	66[illegible]	R	16 T [illegible]		Ir				(g)	
[illegible]	[illegible]	[illegible]	Dinuba Fruit Corp., well [illegible]		16[illegible].3		16 N N		Ds	Tc	.[illegible]	65[illegible]	dry	C,L,P
	[illegible]	[illegible]		1945	66[illegible]		16 T [illegible]		Ir				(g)	
[illegible]	[illegible]	[illegible]	Dinuba Fruit Corp., well [illegible]				16 N N		Un	Tc	.[illegible]	64[illegible]	1[illegible].[illegible]	C,L,P
	[illegible]	[illegible]			62[illegible].0		16 N N		[illegible]					
[illegible]	[illegible]	[illegible]	Dinuba Fruit Corp., well [illegible]				[illegible] T [illegible]		Ir			[illegible]	(f)	C,L,P
	[illegible]	11-[illegible]											17[illegible]	
	[illegible]	11- [illegible]			3[illegible].[illegible]					Tap	1.[illegible]		15[illegible].3	
	[illegible]	[illegible]		19[illegible]	2[illegible]		16 T [illegible]		Ir				(e)	

[illegible] See [illegible] end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd feet)	Water level below lsd (feet)	Other data
T. 1 S., R. 6 E.--Continued														
1S/6E-21B1	GS	7-24-65	DiGiorgio Fruit Corp., well 20			R 16	T		Ir	Bhc	0.1	64	(g)	C,L,P
	DWR	1-27-55			530								180	
	GS	11- 9-54		1954	710	R 16	T		Ir				(g)	
21C1	GS	7-24-65	DiGiorgio Fruit Corp., well 2			16	N N		Un	Tc	0	640		C,L,P
	GS	6-24-52		1945	664	R 16	S E		Ir				(g)	
21D1	GS	7-24-65	DiGiorgio Fruit Corp., well 1				N N		Ds			652	dry	C,L,P
	GS	6-24-52		1945	646	R 16	T		Ir	Tc	.3		(g)	
21E1	GS	7-28-65	DiGiorgio Fruit Corp., well 19			16	N N		Un	Tcc	.5	647	(f)	C,L,P
	GS	6-24-52		1952	900	R 16	T		Ir				(g)	
21F1	GS	7-24-65	DiGiorgio Fruit Corp., domestic well 1		531		T		Dm			64		C,L,P
21H1	GS	7-25-65	DiGiorgio Fruit Corp., well 17		155.0	16	N N		Ds	Tc	0	635	dry	C,L,P
	GS	6-24-52		1952	752	R	T		Ir				(g)	
21K1	GS	7-24-65	DiGiorgio Fruit Corp., domestic well 2				N N		Ds	Tcc	2.0	620	dry	C,L
	D	1957			150	14								
21L1	GS	7-24-65	DiGiorgio Fruit Corp., well 5		227.5	16	N N		Ds	Tcc	.5	624	dry	C,L,P
	GS	6-24-52		1946	644	R 16	T		Ir				(g)	
21M1	GS	7-24-65	DiGiorgio Fruit Corp., well 3			16	N N		Un	Tcc	0	634	161.43	C,L,P
	GS	6-24-52		1945	645	R 16	T		Ir				(g)	
21N1	GS	7-24-65	DiGiorgio Fruit Corp., well 18			16	T		Ir	Bhc	-.1	625	g h190	C,L,P
	GS	6-24-52		1952	900	R 16	T		Ir				(g)	
22A1	GS	7-26-65	W.B. Buerkle, well 2B			14	T		Ir			620	(g)	C,L
	GS	12- 5-53			784.0									
	GS	11-17-53	J.J. Lynn Farms	1953		R 14	T		Ir	Tc	1.0		131.24	
	D	4-13-53			912								132	
22A2	GS	7-26-65	W.B. Buerkle, well 3A		908	R 14	T		Ir	Bpb	3.0	615	141.70	L
	GS	11-17-53	J.J. Lynn	1953	908	R 14	T		Ir				e120	
	D	1- 1-53											104	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 1[illegible] S., R. [illegible] E.--Continued														
10S/6E-22B1	GS	7-26-65							Ds					
	GS	11-17-53							Ds			620		
	GS	6-[illegible]-52	J.J. Lynn, well 1	1952		R 16	T E		Un	Tc	0.8		125.22	
22B2	GS	7-26-65	W.B. Buerkle, well 1A		750	R 14	T 100		Ir			620	(g)	L,P
	GS	11-18-53	J.J. Lynn	1952	750	R 14	T 100		Ir				e g157	
	GS	11-31-[illegible]											e117	
	D	10-22-52		1952	750								119	
22B3	GS	11-17-53					N N N		Ds			625		
	GS	6-[illegible]-52	J.J. Lynn, well 2	1952	680	R 16	N N		Un					
22B4	GS	11-18-53	J.J. Lynn, well 2A				N N N		Ds			620		L
	D	11-22-52		1952	770	R 14	N N		Un	Tc	0		111	
22B[illegible]	GS	7-26-65	W.B. Buerkle, well B	1953	912	R 14	N N		Un	Tcc	0	620	151.88	
22B[illegible]	GS	7-26-65	W.B. Buerkle, well K	1953	912	R 14	N N		Un	Tcc	.5	620	146.75	
22D1	GS	7-24-65	DiGiorgio Fruit Corp,, well 26		735		16 T 100		Ir			615	(g)	C,L,P
	D	7- -60											162	
	GS	2- 9-54								Bhc	.2		126.91	
	GS	6-[illegible]-52			735	R 16	T 100		Ir				(g)	
	D	[illegible]- -51	Dr. L.G. Campbell	1951	735								140	
22D[illegible]	GS	7-28-65	Frances E. Hammon		20.[illegible]		10 N N		Ds	Tc	2.0	620	dry	
	GS	6-26-52	Buck Brinniger				L N		Un					
22D3	GS	7-28-65	DiGiorgio Fruit Corp.				12 T N		Un			620		
	GS	11-20-53	Capt. Kimball		300		12 T D		Un					
23B1	GS	7-26-65	W.B. Buerkle, well 9	1953	908	R	14 T 100		Un			6[illegible]		L,P
	GS	11-18-53	J.J. Lynn	1953	908	R 14	T 75		Ir				el[illegible].2	
23C1	GS	11-17-53							Ds			640		P
	DWR	10- 3-52		1952	680		14			Alg	0		el19	
	GS	6-[illegible]-52	J.J. Lynn, well 3	1952	680	R			Un					
23C[illegible]	GS	7-26-65	W.B. Buerkle, well 4				14 T 100		Un	Bhc	2.[illegible]	6[illegible]	128.[illegible]	L
	GS	11-18-53	J.J. Lynn	1953	888	R 14	T 125		Ir					
	D	2-11-53											el[illegible]	
23D1	GS	11-17-53							Ds			61[illegible]		
	GS	6-[illegible]-52	J.J. Lynn		1700		16 N N		Un					

[illegible] See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. [illegible] S., R. [illegible] E.--Continued														
[illegible]	GS	[illegible]	W.P. Buerkle						Dm			5[illegible]		
	DWR	11- 2-54	J.J. Lynn	1954		R			Dm				(g)	
[illegible]	GS	[illegible]	W.P. Buerkle, well [illegible]	195[illegible]	912	R	[illegible]	[illegible]	Ir	Tc	.2		12[illegible].12	L
	GS	11-1-[illegible]	J.J. Lynn	195[illegible]	912	R	14	[illegible]	Ir				e99.[illegible]	
	P	[illegible]											10[illegible]	
[illegible]	GS	[illegible]	W.P. Buerkle, well [illegible]	195[illegible]	912	R	[illegible]	[illegible]	Ir	Tc	1.[illegible]	6[illegible]	124.9[illegible]	I
	GS	11-1-[illegible]	J.J. Lynn	195[illegible]	912	R	14	[illegible]	Ir					
	P	[illegible]											10[illegible]	
[illegible]	GS	[illegible]	F.M. Ber[illegible]	194[illegible]	6[illegible]		12	T 4[illegible]	Dm			[illegible]10		C,I
	DWR	[illegible]											11	
	GS	[illegible]	Mrs. [illegible] P[illegible]						Dm	Hpb	.[illegible]		10[illegible].[illegible]	
	GS	[illegible]	Mc[illegible] Ra[illegible]	1940	[illegible]12		12	T [illegible]	Dm					
[illegible]	[illegible]	[illegible]	Lewis Brown				[illegible]	[illegible]	Dm			[illegible]		
	[illegible]	[illegible]	G.M. Brodie	193[illegible]	[illegible]430			T [illegible]	Dm				[illegible]	
[illegible]	[illegible]	[illegible]	Lewis Brown					N N	Un	Tf	[illegible]	[illegible]	20.65	W
	[illegible]	11-[illegible]	Oliver Ranch	192[illegible]	160	C	12	J G	Dm					
		[illegible]2			500									
[illegible]	[illegible]	[illegible]	P. [illegible]urney	1961	3[illegible]	R	10	[illegible]	Dm			[illegible]		P
[illegible]	[illegible]	[illegible]	Jim Deveer					E	Un			[illegible]		C,L,P
	[illegible]	[illegible]											[illegible]	
	[illegible]	[illegible]	Zentzi[illegible]	195[illegible]	516	R	14	T D	Ir	Bhc	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]						T N	Un	Tap	[illegible].[illegible]	555	76.9[illegible]	P
	[illegible]	11- [illegible]-54	Portiner and Harris	1954	482	R	14	T G	Ir				[illegible]	
[illegible]	[illegible]	[illegible]	Peaker		54.[illegible]		11	N N	Ds	Tc	1.[illegible]	55[illegible]	dry	
	[illegible]	11-[illegible]-53			90[illegible]		11	N N	Un				56.17	
[illegible]	[illegible]	[illegible]	Peaker		81.5		12	N N	Un	Tc	.9	[illegible]55	76.43	
	[illegible]	[illegible]			224		12	[illegible] W	Un				56.1[illegible]	
[illegible]	[illegible]	[illegible]	Peaker		[illegible]7.[illegible]		8	N N	Ds			[illegible]55[illegible]	dry	
	[illegible]	11-[illegible]-53			34.[illegible]		11	L W	Ds				dry	
[illegible]	[illegible]	[illegible]	Peaker		50.[illegible]		24	N N	Ds	Tc	3.[illegible]	55[illegible]	dry	
[illegible]	[illegible]	[illegible]	Dibiorgio Fruit Corp., well 9				16	N N	Un	Bhc	.[illegible]	6[illegible]	121.6[illegible]	C,L,P
	[illegible]	[illegible]		1946	91[illegible]	R	16	T 10[illegible]	Ir				(g)	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 16 S., R. 5 E.--Continued														
16S/5E-20D1	GS	7-28-65	DiGiorgio Fruit Corp., well 6			16	T 100		Un	Bhc	1.8	611	163.10	C,L,P
	GS	8-24-[illegible]		1946	644	R 16	T 100		Ir				(g)	
20K1	GS	7-24-65	DiGiorgio Fruit Corp., well 22			16	T 100		Ir	Tc	0	600	k136.55	C,P
20M1	GS	7-28-65	R.F. Bowers				L N		Un			575		
	GS	11-[illegible]-53					L N		Un					
20P1	GS	7-25-65	DiGiorgio Fruit Corp., well 2			16	T 100		Un	Tc	2.9	6[illegible]	144.27	C,L,P
	GS	11- 7-54											2[illegible]0.87	
	GS	7-25-65		1946	662	R 16	T 100		Ir				(g)	
29K1	GS	7-25-65	DiGiorgio Fruit Corp., well 10			16	T 100		Un			600		C,P
	GS	[illegible]-[illegible]-[illegible]											[illegible]1.27	
	GS	7-[illegible]-[illegible]			599	R 16	T 100		Ir	Tc	1.4		(g)	
29M1	GS	7-20-65	Jack Russel				T 100		Un	Bpb	2.0	600	140.13	P
	GS	11-19-53	Borrego Co-[illegible] Farm	1953	j648	14	T 100		Ir				101.28	
29N1	GS	7-30-65	Fred Woods			16	T 75		Un	Hpb	.7	600	133.83	C,P,W
	GS	11-19-53	Wirk Hauser	1950	535	R	T 75		Ir					
29Q1	GS	7-29-65	Anza Co.		150	14	S 10		Ir			630	(f)	
	GS	11-19-53	A.A. Bernard		180	12	T 30		Ir	Tc	.2		(f)	
30D1	GS	7-30-65	First National Bank of San Diego			12	T 30		Dm			720	(f)	P
	GS	11-[illegible]-53	Hobergs Desert Resort			12	T 30		Ps				(g)	
30Q1	GS	7-27-65	Mathews and Statter				T 50		Ir			575		
	GS	11-[illegible]-54	H. Walrund				T 5		Ir				e k72	
32R1	GS	7-30-65	Borrego Water Co., well 1	1947	495	C 14	T 40		Ps			580	240[illegible]	P
	GS	11-[illegible]-53	A.A. Bernard			12	T 40		Ps	Tc	.5		83.6	
33M1	GS	7- 2-65	A.A. Bernard				S E		Dm			570		
	GS	11-[illegible]-54								Bhc	.7		[illegible].08	
	GS	6-[illegible]-[illegible]	H. Walrund	1950	530	R 16	T 50		Ir				(g)	
33D1	GS	7-29-65	Marlow Hobbs	1952		16	T 50		Ir			576		C,L,P
33H1	GS	7-30-65	A.A. Bernard			14	T 100		Ir	Tc	.5	5[illegible]	(g)	
	GS	7-31-65											111.35	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 10 S., R. 6 E.--Continued														
10S/6E-33L1	GS	8-10-65	A.A. Bernard		159.7	16	N N		Un	Tc	0.3	565	94.95	
33M1	GS	7-29-65	A.A. Bernard			16	T 75		Ir	Bhc	.3	565	96.[illegible]	P
	GS	6-26-52			400	16	T 60		Ir				69.83	
33M2	GS	7-29-65	A.A. Bernard		518.5	16	N N		Un	Tc	1.[illegible]	565	94.75	
	GS	6-25-52			400	16	N N		Un				69.16	
34D1	GS	7-28-65	Carlson Realty				S E		Dm	Tcc	1.0	560	78.74	P
	GS	6-26-52	Joel W. Baker, Jr.	1951	426	R 16	T 50		Ir					
34D2	GS	7-28-65	Carlson Realty				T 5		Un			560		
	GS	6-26-52	Joel W. Baker, Jr.	1936	57	8	T E		Dm				46	
34F1	GS	7-26-65	Carlson Realty				T 75		Un			550		L,P
	GS	6-26-52	J.V. Costello, Jr.		438	R 14	T 75		Ir	Tc	1.0		44.03	
	D												59	
34H1	GS	7-29-65	Yasha Heifetz	1951	465	14	T 100		Ir			530		L
	GS	6-26-52	N.J. Benson	1951	465	R 14	T 75		Ir	Hpb	.6		(g)	
	D	8- -51											34	
34K1	GS	7-29-65	Ralph E. Estabrook			12	T 5		Dm	Tc	-.1	530	59.08	P,W
	GS	6-26-52		1916		C 12	T G		Ir					
34K2	GS	7-29-65				N	N N		Ds			530		
	GS	11- 9-54								Tc	.5		38.33	
	GS	6-26-52	Ralph E. Estabrook	1916	94	4	L [illegible]		Un					
		1916											32	
35N1	GS	7-30-65	Borrego Valley Airport				T 3		Dm	Hpb	1.6	520	43.75	C,W
	GS	11-19-53			325		T 3		Dm					
36A1	GS	7-23-65				N	N N		Ds			550		
	GS	11-18-53	McGinnis		40.0	D 48	N N		Ds				dry	
36Q1	GS	7-23-65	A.Jones	1951	356	10	N N		Un	Tcc	1.0	525	65.18	P,L,W
	GS	11-19-53	J.E. Jones	1951	356	10	N N		Un					
T. 10 S., R. 7 E.														
10S/7E-5Q1	GS	7-22-65			40.0	D 7	L N		Ds			560	dry	
8F1	GS	7-22-65			49.0	D 7	N N		Ds			570	dry	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 10 S., R. 7 E.--Continued														
10S/7E-19M1	GS	7-23-65				16	T D		Un	Bhc	0.8	600	96.18	C,P,W
	GS	6-26-52	Sell, Inc.	1952	j418	R 16	N N		Un					
30E1	GS	7-23-65					L N		Un	Tcc	2.0	580	87.00	
	GS	6-25-52	Pedersen			8	L N		Un					
30F1	GS	7-23-65	Jack Benson		560		T D		Un			610		L,P
	GS	6-26-52	Raymond Pedersen	1951	560	R 14	T D		Ir				e91	
	D	9- -51											90	
30F2	GS	7-23-65			158.4		12 N N		Un	Tc	.6	610	104.86	
	GS	11-19-53	Pedersen	1935	160		12 N N		Un				97.65	
31A1	GS	8- 2-65	Perna		15.0	D	60 N N		Ds	Tcc	0	720	dry	
T. 10 S., R. 9 E.														
10S/8E-35P1	GS	8-10-65	Anza-Borrego State Park, 17 Palms Spring		1.5	D	N N		Un	Lsd		412	.95	
	M-254	1909												
T. 11 S., R. 4 E.														
11S/4E-19Q1	GS	9- 3-65	Teofulio Helm		16	D	N N		Un	Lsd	0	3,680	15.4	
20M1	GS	9- 3-65	Teofulio Helm			24	J E		Dm	Tap	.8	3,636	45.20	
20N1	GS	9- 3-65	Mrs. Don Lachuse	1962		8	J 1		Dm	Bhc	.3	3,600	65.89	
20P1	GS	9- 3-65				8	J E		Dm	Tc	2.0	3,477	26.82	
25K1	GS	9- 1-65	Lost Spring		1.5	D	30 Si Gr		S	Tc	0	3,760	n1.20	P
29B1	GS	9- 3-65	J.D. Madzime	1956	70		6 J [illegible]		Dm	Tc	2.0	3,440	m57.87	P
29C1	GS	9- 3-65	Brown	1962	130		J 1		Dm			3,440	40	P
29D1	GS	9- 3-65	Brown	1952	30	D	36 N N		Un	Tcc	2.0	3,520	26.89	
29R1	GS	9- 3-65	Ben Fike	1960	39.5		J 3/4		Dm	Hpb	.5	3,200	28.57	
29R2	GS	9- 3-65	Ben Fike	1965	(i)	C	14 N N		Un			3,160		
30A1	GS	9- 3-65	[illegible]. C. Craddock		6.0	D	2 Si Gr		Dm			3,700	dry	

See footnotes at end of table.

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T. [illegible], R. [illegible] (continued)														
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	D [illegible]	[illegible]		Un	Lsd		[illegible]	4.[illegible]	
[illegible]	[illegible]	[illegible]	Herman Eckwell		[illegible]	[illegible]	[illegible]		Dm			[illegible]	(r)	
[illegible]	[illegible]	[illegible]	Irvine Flowers		[illegible]	[illegible]	[illegible]		Dm	Tcc	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	San Diego County Highway Dept.		[illegible]	[illegible]	[illegible]		Un	Tc	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	1946	[illegible]	[illegible]	[illegible]		Dm				8[illegible]	P
[illegible]	[illegible]	[illegible]	San Diego County Highway Dept.	1962	[illegible]	[illegible]	[illegible]		Un	T[illegible]	[illegible]	[illegible]	(r)	
[illegible]	[illegible]	[illegible]	[illegible]	196[illegible]	[illegible]	[illegible]	[illegible]		Dm	Tc[illegible]	[illegible]	[illegible]	61.[illegible]	
[illegible]	[illegible]	[illegible]	Ben Wayman		[illegible]	[illegible]	[illegible]		Un	Tcc	.8	[illegible]	[illegible]	
	[illegible]	[illegible]		1948	[illegible]	[illegible]	[illegible]		S				[illegible]91.11	
[illegible]	[illegible]	[illegible]	[illegible]		96.[illegible]	[illegible]	[illegible]		Un	Tc	[illegible]	[illegible]	9[illegible].51	
[illegible]	[illegible]	[illegible]	Harold Smith		[illegible]	[illegible]	[illegible]		Un	Tc	[illegible]	[illegible]	[illegible]4.19	
[illegible]	[illegible]	[illegible]	Ben Wayman		[illegible].0	[illegible]	[illegible]		S	Tc	[illegible]	[illegible]	(n)	P
[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]		S			[illegible]	(n)	P
[illegible]	[illegible]	[illegible]	Grapevine Mine		(p)	[illegible]	[illegible]		S			[illegible]	(n)	P
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		Dm			[illegible]	(n)	P
T. [illegible], R. [illegible]														
[illegible]	[illegible]	[illegible]	Pena Spring		[illegible]	[illegible]	[illegible]		S			[illegible]	(n)	P
[illegible]	LMR	[illegible]										1,760	(n)	C,P
[illegible]	[illegible]	[illegible]	Rosenhwet	[illegible]	18[illegible]	[illegible]	[illegible]		Dm	Tc	[illegible]	960	h[illegible]	
[illegible]	[illegible]	[illegible]	Lees Spring		[illegible]	D [illegible]	[illegible]		S	Tc	[illegible]	[illegible]	[illegible]	P
[illegible]	[illegible]	[illegible]	Don Ewing			[illegible]	[illegible]		S			3,360	(n)	P
[illegible]	[illegible]	[illegible]	Rusty Spring			[illegible]	[illegible]		Un			[illegible]	(n)	
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]		Dm			[illegible]	(n)	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 5 E.--Continued														
11S/5E-15MS4	GS	8-14-65	Lews Spring			N	Si Gr		S			3,200	(n)	P
16CS1	GS	8-17-65	Parali Spring			N	N N		Ds			3,700	dry	C
16MS1	GS	8-17-65	By Jim Spring		1	36	N N		Ds			4,000	dry	
16RS1	GS	8-14-65				N	N N		S			3,400	(n)	P
16RS2	GS	8-14-65	La Cienaga			N	N N		S			3,400	(n)	P
17D1	GS	8-17-65	Ben F. McManama		200	6	S		Dm	Tcc	0.8	4,460	68.60	
17D2	GS	8-17-65	Ben F. McManama		23.0	4	N N		Ds	Tc	0	4,460	dry	
17Z1	GS	8-17-65	Ben F. McManama		0	N	N N		Ds			4,460		
18R1	GS	8-17-65	Ben F. McManama			6	S E		Dm	Tc	1.3	4,230	84.46	
21H1	GS	8-14-65	Cottonwood Spring		3.5	D 24	N N		S	Lsd	0	3,520	n3.3	P
22C1	GS	8-14-65	Levine Peroli		4.5	D 84	Si Gr		Dm	Tcc	0	3,100	4.-	
22C2	GS	8-14-65	Levine Peroli		5.5	D 48	Si Gr		Dm	Tc	-3.0	3,100	n3.60	P
22C4	GS	8-14-65	Levine Peroli		5.0	120	Si Gr		S	Lsd	0	3,100	n4.7	P
22CS1	GS	8-14-65	Levine Peroli		(p)		Si Gr		S			3,150	(n)	P
22CS2	GS	8-14-65	Levine Peroli				Si Gr		S			3,100	(n)	P
22F1	GS	8-14-65	Levine Peroli		3.[illegible]	D 72	Si Gr		Ur	Tcc	-.5	3,125	dry	
22KS1	GS	8-16-65	Middle Spring				Si Gr		S			3,[illegible]	(n)	P
23MS1	GS	8-12-65	Big Spring						S			3,[illegible]	(n)	C,P
26B1	GS	8-14-65	Tom Allen			8	S E		Dm	Tc	1.2	920		
26D1	GS	8-18-65	T.W. Canyon Spring		.[illegible]	D 72	N N		Ds	Tc	5.0	3,[illegible]	dry	
36D1	GS	8-26-65	A.D. Wilson	1964	74	C 6	L W		Dm	Tcc	.2	4,[illegible]	12.[illegible]	
36M2	GS	8-[illegible]-65	Pluyon Spring				Si Gr		S			3,[illegible]	(n)	C

See comments at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.														
11S/6E-1C1	GS	7-23-65	Southern Pacific Co.			16	N N		Un	Tcc	1.0	520	48.37	C,L,P
	GS	2-24-54								Tap	.7		33.56	
	GS	11-19-53	C.E. Massal	1953	420 R	14	T 30		Un				28.79	
2C1	GS	7-31-65	Audette		335		T 20		Un	Tc	.5	520	45.19	C,P
	GS	11-19-53			300 R		T 20		Ir				22.25	
2C2	GS	7-31-65	Audette		690		T 5		In	Tc	.5	520	39.40	
	GS	11-17-53				12	T N			Bhc	.3		16.64	
2C3	GS	7-31-65	Audette	1934		N	N N		Ds			520		L
	GS	11-19-53	A.A. Beatty				L W		Dm				(g)	
	D	1934			660	16								
2D1	GS	7-31-65	Audette	1961	160	10	N N		Un	Tc	1.5	520	42.09	
3A1	GS	7-31-65	Pat Campbell			7	T 2		Dm	Tc	1.5	520	46.16	
3C1	GS	7-31-65					T 75		Un	Tap	.6	525	57.97	L,P
	GS	12- 8-53	A.A. Bernard	1953	360.0	14	T 40		Ir					
	O	12- 5-53			C					Tc	1.0		39.0	
3D1	GS	7-31-65	Borrego Valley School Dist.			14	N N		Un	Tcc	1.5	538	r62.68	C
	GS	11-17-53		1936	78		T 2		Dm				(g)	
3D2	GS	7-31-65	Borrego Valley School Dist.		34.0	10	N N		Ds	Tc	1.0	538	dry	C
	GS	11-16-54		1954	223 R	10	N N		Un				40.22	
3D3	GS	7-31-65	Borrego Valley School Dist.				T 15		Ps			538		
3E1	GS	7-31-65			64.0	6	N N		Un	Tc	1.0	520	55.83	C,P
	GS	11-20-53	Perry Bernard		300 R	9	T 20		Ir				(g)	
3E2	GS	7-31-65				14	T 30		Un	Tc	1.0	520	70.75	
3M1	GS	8- 3-65			76.5	11	N N		Un	Tc	1.5	520	41.29	L
	GS	12- 7-53	Dr. Kennedy		107	10	N N		Un					
3M2	GS	8- 3-65				11	T 5		Un			520		
	GS	12- 7-53	Dr. Kennedy			10	T 5		Ir					
3M3	GS	7-31-65	H.A. Bernard			10	N N		Un	Tcc	1.5	520	44.85	L,P
	GS	12- 8-53	Perry Bernard			10	T 5		Un	Tc	1.5		23.9	

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State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.--Continued														
11S/6E-3N1	GS	8- 3-65			73.0		T 10		Un	Bhc	1.0	518	36.57	C
	GS	12- 7-53	Perry Bernard		120	R 10	T 10		Un				15.1	
3N2	GS	8- 3-65				11	T 10		Un	Tc	2.0	518	(f)	L,P
	GS	12- 7-53	Perry Bernard		120	10	T 10		Ir				16.07	
3N3	GS	8- 3-65			70.7	11	T 10		Un	Bhc	.8	518	39.30	C,P
	GS	12- 7-53	Dr. Isham		120	10	T 10		Ir				17.2	
3N4	GS	8- 3-65			73.0	11	N N		Un	Tcc	1.0	520	40.18	L
	GS	12- 7-53	Dr. Kennedy		105	10	T 10		Ir	Bhc	0		19.28	
4A1	GS	8- 2-65	Ward Hutton	1948	130	12	S 1		Dm			538		
	GS	11-19-53			122.4	12	J 3		Dm	Hpb	.1		39.8	
4A2	GS	8- 2-65	Associated Pumps			10	J ½		Un	Tcc	.5	540	63.44	
	GS	11-19-53	Walter Borden	1953	(i)	10			Un					
4A3	GS	7-31-65	Mrs. Gorzeman		525		T 3		Dm			540	(f)	
4B1	GS	7-31-65	William Yuhas		118	C 10	T 7½		Ir			540	(g)	L,P
	GS	11-19-53			118	10	T 7½		Ir				(g)	
4D1	GS	7-30-65	Howard Garrison		384	C 12	T 7½		Un			560		L
	GS	11-19-53	Palms Trailer Court	1933	384	10	T 7½		Ir	Hpb	.5		65.02	
	O	10- -53											67	
	D	4- -51											57	
4D2	GS	7-30-65	Howard Garrison		[illegible]	12	N N		Ds			560		
4F1	GS	8-11-65	Borrego Springs Park			12	N N		Un	Tc	1.0	540	69.87	
4M1	GS	8-10-65	Borrego Springs Park	1913	387	6	N N		Un	Tc	1.0	555	89.6[illegible]	
	GS	12- 8-53	Ensign Ranch	1913		6	L [illegible]		Dm				82.[illegible]	
4M2	GS	8-10-65	Borrego Springs Park, well 2	1932	500	12	T 20		Ir	Hpb	.4	555	(f)	P
	GS	12- 8-53	Ensign Ranch		500	12	T 20		Ir				87.6	
4N1	GS	8-11-65	Borrego Springs Park		54.[illegible]	12	N N		Ds	Tc	1.4	560	dry	
	GS	12- 8-53	Ensign Ranch		63.5	12	N N		Un				49.9[illegible]	
	GS	8-11-53											49.12	
4P1	GS	8-10-65	Borrego Springs Park, well 3	1945	613	16	T 100		Ir			54[illegible]		P
	O	1963											[illegible]	
	GS	12- 8-53	Ensign Ranch	1945	613	16	T 25		Ir				(g)	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.--Continued														
11S/6E-[illegible]	DS	[illegible]-65				D	N		Ds					
A1	GS	[illegible]-65				6	N N		Ds					
[illegible]	DS	[illegible]-65					N N		Ds					
	DS	11-17-53	H.A. Bernard				N N		Ds					
H1	GS	3-3[illegible]-65				60	N N		Ds				dry	
	GS	12-[illegible]-53	German and Justice			60	N N		Un					
[illegible]	GS	[illegible]-11-65				16	N N		Un					W
	GS	11-19-53	Montgomery Schindler			16	N N		Un					
K1	GS	[illegible]-11-65	Borrego Water Co.			12	N N		Un					S,F
	DWR	1[illegible]-[illegible]-53	H.A. Bernard				T 25		Ps				(g)	
	GS	[illegible]-11-65	Borrego Water Co., well 2	1956	451		10 T 50		Ps					P
	W	1956		1956	451								216	
P1	GS	[illegible]-11-65				12	N N		Ds					
	GS	11-19-53	Larson		241.0	12	N N		Un					
	GS	3-[illegible]-53											212.70	
H1	GS	[illegible]-10-65	L.W. [illegible]	1951	291	11	S [illegible]		Dm					
	GS	12-[illegible]-53	Dr. Walters	1951	298	10	T 30		Ir					
R2	GS	[illegible]-11-65	Borrego Springs Park, well 4	1960	[illegible]		T 125		Ir					
S1	GS	[illegible]-10-65	Borrego Springs School Dist.	1953	191.7	6	T [illegible]		Un				191.6	P
	GS	12-[illegible]-53	Small	1953	175	6	T [illegible]		Dm					
9B1	GS	[illegible]-10-65	Borrego Springs Park, well 1	1926	405	12	T 50		Ir					S,F
	GS	12-[illegible]-53	Ensign Ranch		400		T 2[illegible]		Ir				(g)	
	DWR	1-[illegible]-53											49	
9B2	GS	[illegible]-10-65	Borrego Springs Park	1937	[illegible]	[illegible]	N N		Ds					
	GS	12-[illegible]-53	Ensign Ranch				C [illegible]		Dm					
10B1	GS	7-[illegible]-61			21.2	9	L N		Ds				dry	
	GS	12-[illegible]-53					L W		Un					
	JSB	1917	T.O. Fewell		[illegible]	D							21	

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.--Continued														
11S/6E-10D1	[illegible]	[illegible]- 3-65	Michael Krivy			11	T 1		Un			518		P
	GS	12- 7-53	Dr. Ostrum	1953	214.5	10	T N		Un	Tc	[illegible]		30.3	
10D2	[illegible]	[illegible]- 3-65	G.M. Kueneman			13	T 10		Un	Tc	1.[illegible]	518	33.46	P
	GS	11-10-64	Dr. Ostrum	1954	130	12	T 10		Ir				11.83	
10D3	GS	[illegible]- 3-65	Marvin Snider	1964	340	8	S 7½		Dm	Tc	.8	515	49.37	L,P
10E1	GS	8- 3-65			[illegible]	5	N N		Ds	Tc	1.5	518		
	GS	12- [illegible]-53			25.0	4	N N		Un				14.4	
10M1	GS	[illegible]- 3-65			19.0	D 72	N N		Ds	Tc	1.0	518	dry	
	GS	12- [illegible]-53	Ray Jacobs		22.0	D 60	N N		Un				15.[illegible]	
10N1	GS	[illegible]- 4-65	Borrego Village Resort			16	T 10		Un	Tc	1.0	522	68.81	C,P,W
	GS	12- [illegible]-53	Ray Jacobs	1946	386.0	R 16	T 40		Ir					
10N2	GS	[illegible]- 4-65	Borrego Village Resort		23.0	D 36	N N		Ds	Tc	[illegible]	525	dry	
	GS	12- [illegible]-53	Ray Jacobs		30	D 36	N N		Un				27.05	
10N3	GS	[illegible]- 4-65	Borrego Village Resort				T 5		Dm			[illegible]		
	GS	11-17-64	Ray Jacobs	1954	200	R 8	T 1		Dm	Tc	.0		19.[illegible]	
10N4	GS	[illegible]- 4-65	Borrego Village Resort			6	J 2		Un	Tc	.5	522	67.81	
11D1	GS	7-30-65	Lou Burke, well 1			14	T 40		Ir	Tc	.4	510	48.40	C,P
	GS	11-16-53	Kosky and Hagenbuck	1946	687	R 16	T 40		Ir				30.[illegible]	
	GS	11- [illegible]-53											gw.11	
11D2	GS	7-30-65	Lou Burke			14	S 2		Dm	Tcc	1.05	500	66.01	L,W
	GS	11-16-53	Kosky and Hagenbuck	1946	247.0	14	N N		Un					
	O	1946			446									
11F1	GS	8-31-65			[illegible]	N	N N		Ds			486		
	GS	11-20-53	Kosky and Hagenbuck			4½	N N		Un	Tc	1.0		[illegible].37	
11N1	GS	7-30-65		1912	104.3	2½	N N		Un	Tc	.7	457	[illegible].[illegible]	C,P,W
	GS	12- [illegible]-53	W.S. Campbell		104.3	3	N N		Un					
	JSB-1	11-30-17	Jock French		78	3½			Dm				(1)	
11N2	GS	7-30-65				2½	N N		Un	Hpb	.9	457	[illegible].[illegible]	P
	GS	12- [illegible]-53	W.S. Campbell			2½	L H		Dg					
	JSB	11-30-17	Jock French		68	2½							(1)	
11Z1	GS	7-30-65			[illegible]		N N		Ds			500		

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.--Continued														
11S/6E-13C	GS	7-31-65	Bill Hatch	1927	86.3	3½	N N		Un	Tc	1.7	475	20.66	
12J1	GS	7-29-65			7.0	D 48	N N		Ds	Tc	0	475	dry	
14B1	GS	7-30-65	Bemis	1920		4	L H		Un	Tc	1.5	470		
14C1	GS	7-31-65	J.E. Henderson		18.0	D 48	N N		Ds	Tc	0	475	dry	
	GS	12- 8-53			25.0	D 60	C N		Un				21.16	
14C2	GS	7-30-65	J.E. Henderson	1950	105	8			Dm	Tc	.65	475	24.7	
14D1	GS	8- 2-65	Elwood Heiss	1946	96	10	J 1		Dm	Tc	.1	485	32.45	
	GS	12- 8-53	McLaughlin		106									
14D2	GS	8- 5-65	Ray Wilson Construction Co.	1956	220	10	J 3/4		Dm	Tcc	1.9	485	28.01	
	GS	11-16-56	Spang and McLaughlin	1956	i212	C	N N			Lsd			18	
14D3	GS	8- 4-65	A-1 Lodge	1955	148	10	J ½		Dm	Bhc	.28	485	32.29	P
14D4	GS	8- 5-65	Volsted	1946	8.0	10	N N		Ds	Tc	2.5	485		
14G1	GS	7-30-65	Clyde Bemis	1920	45.6	3	N N		Un	Tc	-.4	478	23.61	
	GS	12- 8-53	McCloud		80	3	C G		Dm				1.45	
	GS	2-18-53			70								n.3	
14Z1	GS	8- 5-65			0		N N		Ds			500		P
	JSB	1917				4							(n)	
15B1	GS	8- 5-65	A.E. Blanc		21.3	8	L H		Ds	Tc	.5	500	dry	
	GS	12- 9-53	Leona Wood		42	D 8	L H		Dm					
15B2	GS	8- 5-65	A.E. Blanc		80	9	J		Dm	Tcc	.9	500	41.69	
15B3	GS	8- 5-65	Patterson	1957	204	12	T 7½		Un	Tc	1.6	505	45.88	P
15E1	GS	8- 4-65	Drumheller				T 10		Dm			535		P,L
	GS	12- 9-53	Paul Grimm	1951	152	10	T 10		Ir					
	O	1951											g44.3	
15E2	GS	8- 4-65	N.L. MacDonald		117	10	J 1		Dm	Tc	1.4	520	57.98	L,W
	GS	12- 9-53		1953		10	J 1		Dm					
15E3	GS	8- 4-65	Mrs. Rose Norman, well 1	1955	83.5	10	N N		Un	Bhc	1.5	520	60.34	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 6 E.--Continued														
11S/6E-15E4	GS	8- 5-65	Mrs. Rose Norman, well 2		128.8	8	N N		Un	Tc	1.2	520	60.01	
15F1	GS	8- 5-65	Norris Bakko			10	T 2		Dm	Tc	1.0	520	h m63.31	C,P,W
	GS	12- 9-53	Clyde Van Marter	1950		10	T 2		Ir	Hpb	1.0			
	O	1950			122									
15F2	GS	8- 5-65	E.N. Turpin		122				Dm			510		L,P
	GS	12- 9-53		1950	122	10	T 7½		Ir				(g)	
	O	1950											30	
15F3	GS	8- 5-65	Ed. Burnham			12	T 1½		Dm			505		
	GS	12- 9-53			140	12	J 1½		Dm	Tc	1.0		35.4	
15G1	GS	8- 5-65	Highway Maintenance Station			12	T 10		Dm			500	e45	
15H1	GS	8- 5-65	Ed. Duvall		100	12	J 3/4		Dm	Tc	0	495	g47.53	P
	GS	12- 9-53		1927	100	12	L W		Dm				23.5	
16A1	GS	8- 6-65	F.B. Wray		200		T E		Dm			535	80	
16H1	GS	8- 4-65	Drumheller			12	T 40		Un			540		C,L,P
	GS	12- 9-53	Paul Grimm	1950	350	12	T E		Ir					
	D	10-14-50		1950	350								47	
18R1	GS	9-11-65	Fred Osborne			8	S E		Dm	Tcc	.5	760	316.73	
20Q1	GS	8-12-65			85.0	D 42	N N		Ds	Tc	0	875	dry	
22A1	GS	8- 2-65	Mutual Water Co.		125.6	10	T N		Un	Tc	.4	540	r62.7	C,L,W,P
	GS	12- 9-53	Norris Bakko	1948	134	10	J 1		Dm					
22A2	GS	8- 2-65	Mutual Water Co.				T 25		Dm			540		P
	GS	12- -53	Bud Kuhrts	1953	280	10	T 25		Ir					
	O	11- -53											55.0	
22B1	GS	8- 2-65	Mutual Water Co.		740		T 2		Ps			540		P
22J1	GS	8- 2-65	Bartlett		290	12	T 3		Dm			620		
	GS	12-10-53		1943	292									
	O	1952											124	
23D1	GS	8- 2-65	James S. Copley				T		Dm			590		L
	GS	12- -53	Bud Kuhrts	1932	140	12	T 10		Ps					
	O	4- -52											45.0	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. [illegible] S., R. [illegible] E.--Continued														
11S/[illegible]-23D[illegible]	[illegible]	[illegible]- 2-65	Glen Bostwick		[illegible]	11	[illegible]		Un	Tc	[illegible].8	520		
[illegible]4B1	[illegible]	8-12-65	Burke, well 1	1938	290.7	12	[illegible]		Ds	Tc	[illegible].4	[illegible]	dry	L
		1938			298									
[illegible]4R1	[illegible]	7-29-65	Laac Ranch		32.5	D 48	L H		Ds	T	[illegible]	[illegible]	dry	
	[illegible]	12-10-53			35.0	D 48	L H		Un				[illegible].35	
	[illegible]	1-16-53											-3.[illegible]	
[illegible]6F1	[illegible]	[illegible]-23-65	Mrs. Bradley Fisk	1963	316.3	7	N N		Un	Tc	.7	[illegible]8	[illegible]8.6	
[illegible]6K1	[illegible]	1-20-65	DiGiorgio Fruit Corp.	195[illegible]	[illegible]		N N		Ds			7[illegible]		
	[illegible]	1-10-57			280	12								
[illegible]6Q1	[illegible]	[illegible]- 2-65	Mrs. Bradley Fisk	[illegible]963	[illegible]	[illegible]	N N		Ds			[illegible]2[illegible]		
	[illegible]	1963			[illegible]100									
[illegible]4A1	[illegible]	[illegible]- 2-65	Paul Skinner	1954	600+	9	N N		Un	Tc	.3	92[illegible]	44[illegible].6	
T. [illegible] S., R. [illegible] E.														
11S/[illegible]-6N1	[illegible]	7-31-[illegible]			[illegible].9	12	N N		Ds	Tc	.6	[illegible]0		
7K1	GS	[illegible]-31-[illegible]			8.7	D 48	N N		Ds	Tc	[illegible]	4[illegible]	dry	
7M1	GS	[illegible]-31-[illegible]					T N		Un			475		P,W
	GS	2-24-54								Tap	3.6		28.31	
	GS	11-[illegible]-53	Phil Bartlett	1936	[illegible]2.4	12	T N		Un					
8N1	GS	[illegible]-[illegible]-65	Borrego Spring		[illegible].5	D 24	N N		Ds	Tc	[illegible].[illegible]	480	dry	
17Z1	JSB-6	12- 1-17							Dm			45[illegible]		C
	M-252	1909	Borrego Spring										(n)	
20N1	GS	[illegible]-[illegible]-65	Bing Crosby and Helen Alvarez			12	T 30		Un	Bhc	.4	595	[illegible].69	C,P,W
[illegible]	GS	12- [illegible]-[illegible]		1951	368	12	T [illegible]		Ir					
	G[illegible]	[illegible]-[illegible]-53	R.M. Wear			12	T 30							
29C1	GS	[illegible]-[illegible]-65	J.C. Burks			9	N N		Un	Tc	[illegible].[illegible]	5[illegible]	[illegible].84	
30G1	GS	7-28-65	Borrego Air Ranch, well 1			D [illegible]8	N N		Un	Tc	[illegible]	520	61.[illegible]	
	GS	12-17-53	Ed Fletcher		68.5	D 60	L 3		Dm	Tc[illegible]	.5		61.[illegible]	

[illegible]-56 See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 11 S., R. 7 E.--Continued														
11S/7E-30G2	GS	7-28-65	Edward Sheck	1925	76.1	D 60	L H		Un	Tcc	1.57	555	75.18	
	GS	12-10-53			80.0	D 60	L H		Un	Tcc	2.0		76.76	
	GS	2-18-53								Tcc	2.5		76.17	
30G3	GS	7-28-65	Borrego Air Ranch, well 3		350	7	T 5		Dm			560	72	P
30K1	GS	7-28-65	Borrego Air Ranch, well 2	1925	82.3	D 8	L 3		Dm			555		P
	GS	12-10-53	Ed. Fletcher		83.2	D 8	T 5		Dm	Tcc	2.0		72	
30K2	GS	7-29-65	K.E. Knudson									565		C
	GS	12-17-53	F.L. Stow						Dm					
	GS	2-19-53		1950	146	10			Dm	Tcc	.5		96.89	
32Q1	GS	7-29-65	Hayden		418.7	12	N N		Un	Bhc	.8	700	192.23	C,L,P,W
	GS	11-10-54					N N		Un					
	GS	12-13-53		1952		12	T G		Ir					
	D	11- 2-52	Don Hayden	1952	463									
T. 11 S., R. 8 E.														
11S/8E-23B1	GS	5-10-65	5 Palms Spring						Un			400	(a)	
5Q1	GS	9-13-65	Saltonia Land Co. Wolf well		0	21	N N		Ds	Tc	3.5	140		
	DGO	9- -32	San Felipe Oil Co., Dauner 1	1932	847				T					
5R1	GS	9-13-65	Saltonia Land Co.		3.5	6	N N		Ds	Tc	1.0	140		
33P1	GS	9-14-65	Owen C. Terrel	1960	436	6	N N		Un	Bhc	.5	175	58.15	C,L
33P2	GS	9-14-65			9.2	10	N N		Ds	Tc	.8	175	dry	
T. 11 S., R. 9 E.														
11S/9E-27Q1	GS	8-17-66			0	C 3	N N		Ds	Tc	1.0	160		L
	DGO		Standard, Southern Land Co.		4,531									
T. 12 S., R. 8 E.														
12S/8E-[illegible]	GS	9- 5-65	Parol[illegible]		10.6	D 180	Si Gr		Ds	Tcc	0	2,270	dry	
4Q1	GS	9-13-65			4.9	D 40	Si Gr		S	Tc	0	2,240	n.d1	P

(a) See footnotes at end of table.

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T. [illegible] S., R. [illegible] E.--Continued														
[illegible]	GS	[illegible]				D 240	Si Gr		S			[illegible],840	(n)	P
[illegible]	GS	9-[illegible]	Ben Hayman						S			[illegible],160	(n)	P
[illegible]	GS	[illegible]			2.[illegible]	D 36	Si Gr		S	Tc	2.[illegible]	3,200	n+.3	P
[illegible]	GS	[illegible]	Ben Hayman						S			3,[illegible]	(n)	P
[illegible]	GS	[illegible]	Ben Hayman						Dm			3,600	(n)	P
[illegible]	GS	[illegible]	Hans Starr, Catfish Spring		5.[illegible]	D [illegible]2	Si Gr		Ds	Tc	[illegible]	3,350	dry	
[illegible]	GS	[illegible]	Hans Starr		17.[illegible]	D 36	N N		Un	Tc	[illegible]	2,6[illegible]	16.[illegible]	
[illegible]	GS	[illegible]	Mrs. Sawday		3.[illegible]	D 72	Si Gr		S	Lsd		2,[illegible]	[illegible].[illegible]	
[illegible]	GS	[illegible]	Hans Starr				T G		Ir	Tap	.1	2,440	[illegible]2.18	
[illegible]	GS	[illegible]	Mrs. Sawday		58.5	b8	L W		S	Tc	1.5	2,406	85.51	
	GS	11-24-53	San Felipe Ranch		72.5	12	L W		S				59.6	
[illegible]	GS	[illegible]	Hans Starr		12	D	N N		S			2,[illegible]20	(a)	
24K[illegible]	GS	[illegible]	Mrs. Sawday		56.5	12	L W		S	Tc	1.15	2,442	56.11	C,W
	GS	11-24-[illegible]	San Felipe Ranch		95.8	12	L W		S					
	I-[illegible]	1919			90	12								
[illegible]	GS	9-[illegible]	Mrs. Sawday			10	S 1		Dm	Tcc	.4	2,430	38.3[illegible]	
	GS	11-[illegible]	San Felipe Ranch	1942			L W		Dm					
[illegible]	GS	[illegible]	Mrs. Sawday			b6	L W		S	Tc	1.3	2,425	27.17	
	GS	2-28-60											22.26	
	GS	11-24-53	San Felipe Ranch		143.5	14	L W		Un				10.95	
	I-[illegible]	1919			280	12								
24R1	GS	[illegible]	Mrs. Sawday			8	T 30		Ir	Tc	2.9	2,410	h71.1	[illegible]
2[illegible]L1	GS	[illegible]	Mrs. Sawday		147.6	6	L W		S	Tc	1.4	2,450	49.87	
	GS-25X1	11-24-53	San Felipe Ranch		41.6	10	L G		S				g30.22	
32[illegible]	GS	9-1-[illegible]	Camp Stevens	1950	310	C 6	T 7[illegible]		Ds			4,0[illegible]0	dry	
32E2	GS	9-10-[illegible]	Camp Stevens	1965	438	C 7	[illegible] 2		Dm	Tc	.4	4,080	(h)	P
32E[illegible]	GS	9-10-[illegible]	Camp Stevens		24.5	D 36	N N		Ds	Tc	.[illegible]	4,080	dry	

[illegible]-58 See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 12 S., R. 4 E.--Continued														
12S/4E-32P1	GS	9- 9-65	W.L. Rider		25.0	D 45	L W		Un	Tc	0	4,100	14.41	
33K1	GS	9- 9-65	J. H. Starr			D	Si Gr		Dm			3,200	(n)	P
33L1	GS	9- 9-65	John M. Collins		2.0	D 12	Si Gr		Un	Lsd	0	3,360	n2.0	P
33M1	GS	9- 9-65	John M. Collins		(p)	D	Si Gr		Dm	Lsd	0	3,600	(n)	P
36N1	GS	9- 5-65	Mrs. Sawday		84.8	12	L W		S	Tc	1.2	2,530	46.09	
	GS-36X1	11-24-53	San Felipe Ranch		84.3	12	L W		S				50.04	
T. 12 S., R. 5 E.														
12S/5E-5QS1	GS	8-10-65	Angelina Spring		.4	12			S	Lsd	0	2,550	(n)	P
6G1	GS	8-25-65	Stuart Spring		2.1	D 16	N N		S	Tc	0	2,880	n1.90	P
16B1	GS	8-18-65	Bitter Creek Spring		7.7	D 24	Si Gr		S	Lsd	0	2,450	6.25	P
28R1	GS	8-19-65			17.5	D 36	N N		Ds	Lsd	0	2,260	dry	
	GS-34X2	1- 4-54	San Felipe Ranch		25.0	D 36	N N		Un				20.0	
34C1	GS	8-19-65			116.2	6	L W		S	Tc	1.8	2,255	15.07	
34J1	GS	8-24-65	Jack Napierskie			10	L W		Dm	Tc	.3	2,280	63.11	C,W
	GS	11-24-53	Mrs. Bushore		74	10	L W		Dm					
34J2	GS	8-19-65			53.5	4	N N		Ds	Tc	1.0	2,270	dry	W
	GS	11-24-53	Mrs. Bushore		88.0	9	N N		Un	Tap	1.0		51.83	
34L1	GS	8-19-65	Hill	1965	105		4½ S 1		Dm	Tcc	1.0	2,260	48.65	P
34L1	GS	8-19-65	Bill Parris	1965	101	C	8 S 1		Dm	Tcc	1.3	2,260	62.25	P
34L	GS	8-3 -65	Briton	1962	106.4		4½ N N		Un	Tc	1.6	2,320	100.83	
34M1	GS	8-14-65	Earthquake Valley Ranch	1958			10 L W		Dm	Hpb	1.0	2,290	60.06	
34N1	GS	8-19-65	Kalak	1964	140		8 S 3/4		Dm			2,310		T
34P	GS	8-19-65	John W. Branch	1957	256		9 L G		Dm	Tpb	.6	2,360	129.6	T
34P	GS	8-19-65	Dr. Stearn	1963	200		4½ L G		Dm			2,35		
34R	GS	8-19-65	Lewis Wistler				8 S		Dm	Tcc	1.6	2,2	59.38	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)		Type of pump and power		Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
												Description	Distance above or below(-) lsd (feet)			
T. [illegible] S., R. [illegible] E.--Continued																
[illegible]-34X1	GS	5-[illegible]-65									Ds			2,[illegible]		
	GS	11-24-[illegible]	San Felipe Ranch			D	48	N	N		Un	Tc	0		18.5	
	JSb-33	1- 5-[illegible]			18.2	D	48	L	W		S				10.2	
35L1	GS	[illegible]-24-65	Mrs. Lopez					L	G		Un	Tc	.5	2,320	106.2	
35[illegible]	GS	[illegible]-24-65	Lyle				9	L	W		Dm	Tc	1.0	2,280	62.19	
	GS	3- [illegible]-65				C		L	W		Dm					
[illegible]	GS	[illegible]-24-65	Jack Napierskie		86.7		8	N	N		Un	Tc	.8	2,270	53.4[illegible]	
	GS	3- [illegible]-55		1955		C	8	N	N		Un					
35N3	GS	[illegible]-24-65	Odear				6	L	3/4		Dm	Tc	.5	2,320	98.1[illegible]	
35N1	GS	8-24-65	Carrol		82.0		10	L	G		Dm	Tcc	.5	2,290	71.63	
	[illegible]	9- -55													68	
	GS	11-24-53	A. J. Carrol	1949	92			L	G		Dm				65.55	
35P1	GS	[illegible]-24-65	Jack Napierskie	1948	166.4		9	N	N		Un	Tc	.6	3,320	137.39	
	GS	11-11-54													137.95	
	GS	2- [illegible]-54													138.18	
	GS	11-24-53	Oscar Creighton	1949	159.0		8	N	N		Un				138.08	
T. [illegible] S., R. 6 E.																
18S/6E-17Y1	GS	8-18-65	Anza-Borrego State Park				8	T	7½		Ps	Bpb	1.4	1,420	49.33	C,P
	DWR	4-[illegible]-63		1929	62										52	
	GS	11-11-54													40.39	
	GS-17X1	12-14-53			60.3		8	J	1		Dm				g40.95	
17C2	GS	8-18-65	Anza-Borrego State Park					J	3/4		Ps			1,420		C,L
	DWR	4-[illegible]-63		1953			10									
	GS	11-11-54													54.78	
	GS-17X2	12-14-53		1953	263.1		10	J	E		Un	Tc	2.5		53.15	
18A1	GS	8-18-65	Anza-Borrego State Park	1964	125		8	S	1½		Ps	Tcc	6.2	1,450	60.96	C,L,P
	D	7-10-64			125		12								62	
18B1	GS	8-18-65	Anza-Borrego State Park, Yaqui well		6.5	D	b480	N	N		S	Lsd	0	1,500	5.0	C,P
	GS-18X1	12-14-53			4.4	D	36	N	N		S	Tc	.5		3.0	
	DWR	3-17-53			5										2.5	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 12 S., R. 7 E.														
12S/7E-4J1	GS P	8-14-65	Ed. Fletcher		642 652	8 8	N N		Un	Tcc	2.5	740	27[illegible].49 265	P
T. 12 S., R. 8 E.														
12S/8E-2N1	GS GS	[illegible]-[illegible]-65 12-15-53	Lew Holmes				T G T G		Ir Ir			180[illegible]		
3R1	GS DGO	3- 9-66	John F. Sheran well 1	1939	3,912	N	N N		Ds T			18[illegible]		
4H1	GS	[illegible]-14-65	San Diego County		48.0	D	36 N N		Ds	Tc	[illegible]	161	dry	
4N1	GS	[illegible]-14-65	G.L. Mayer		12.5		10 N N		Ds	Tc	-1.0	[illegible]88	dry	
4N[illegible]	GS	8-14-65	G.L. Mayer	1965	265		8 S E		Un	Tcc	1.4	288	159.[illegible]	L
6N1	GS	[illegible]-17-65	M.A. Smith	1958	300	R	10 S E		Dm			38[illegible]		L
6J1	GS	[illegible]-1[illegible]-65	McCarver				7 S 2		Un	Tap	1.0	4[illegible]	[illegible].[illegible]	
8N1	GS	[illegible]-16-65	Desert Ironwoods Motel				6 S E		Dm	Tc	.[illegible]	440	198.[illegible]	
8N2	GS	8-17-65	Desert Ironwoods Motel				8 N N		Un	Tcs	.2	440	21[illegible].[illegible]	
8P1	GS GS D	[illegible]-17-65 12-10-53 [illegible]- -52	Putter James Magill	1962	293.0 314		10 S 2 10 N N		Dm Un	Tap	1.3	410	1[illegible].[illegible]6	C,L,W
6P[illegible]	GS G[illegible]	[illegible]-17-65 11-10-54	McCarver Fred Wade	1954	216.[illegible]		10 S 1 10 N N		Dm Un	Tcc T[illegible]	1.9 1.9	41[illegible]	1[illegible].[illegible] 182.[illegible]	
6R1	GS	[illegible]-17-65	Robert J. Bovee			R	8 S 3/4		Dm	Tcc	.[illegible]	3[illegible]	1[illegible].[illegible]	
6R2	GS[illegible]	[illegible]-[illegible]-65	Robert J. Bovee				10 S 1[illegible]		Dm	Tc	2.[illegible]	3[illegible]	13[illegible].[illegible]	
7R1	GS	[illegible]-17-65			10.0		8 N N		Ds	Tc	1.0	40[illegible]	dry	
8K1	GS GS	[illegible]-17-65 12-11-53	Arthur Kenck	195[illegible]			S 3 7 J 10		Dm Dm	Tcc	1.[illegible]	3[illegible]	244.1[illegible] [illegible]	C
9K2	GS D	8-17-65 [illegible]-[illegible]-55	Charles Peterson, Jr.	1965	283 283	C	8 S 1[illegible] 8		Dm	Tc	.[illegible]	[illegible]0	24[illegible].83 [illegible]	L,P
9M1	GS GS	8-17-65 1- [illegible]-53	W.J. Barrett Stransky		255.2 36[illegible].0		12 N N 12 N N		Ds Un	Tc	1.[illegible]	36[illegible]	dry 27[illegible].95	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 10 S., R. 8 E.--Continued														
[illegible]-7A	[illegible]	[illegible]-25-65	Ray Robison	1963	209	C 6	S 1		Dm	Tc	1.9	160	101.86	
[illegible]	[illegible]	[illegible]-[illegible]-65	Forrest L. McInnis						Dm			[illegible]		L
	[illegible]	12-[illegible]-[illegible]	John T. Craig	1952	174	6	L 1		Dm					
	D	1-11-[illegible]			174	R 6							128	
[illegible]	[illegible]	[illegible]-[illegible]-[illegible]	George Cunningham		155.5	10	N N		Un	Tc	1.5	[illegible]	[illegible].79	
[illegible]	[illegible]	[illegible]-[illegible]-65	Ocotillo Wells Mutual Water Co.		223.4	16	N N		Un	Tc	.6	[illegible]	149.[illegible]	C
	W	12-11-[illegible]					L E		Dm					
	W-2	1-[illegible]-43			120.[illegible]	36				Lsd			115.[illegible]	
D[illegible]	[illegible]	[illegible]-74-65	Ocotillo Wells Mutual Water Co.	1964	297	C 8	S 7½		Ps			188	138	L
	D	[illegible]-[illegible]-64			297	8							138	
[illegible]3	[illegible]	[illegible]-[illegible]-[illegible]	A.R. Hederman	1959		10	L G		Un	Tc	2.[illegible]	190	139.58	C,L,P
	D	[illegible]-10-[illegible]	R.R. Hederman		250	10							140	
[illegible]	[illegible]	[illegible]-[illegible]-65	A.W. Toner	b1965			L G		Un	Tc	.8	175	53.68	
	[illegible]	12-19-63			53.[illegible]	12	N N		Ds				dry	
[illegible]	[illegible]	[illegible]-[illegible]-[illegible]	W.C. German			8	S 1		Dm			160		
	[illegible]	[illegible]-11-[illegible]	Scotty's Store		115	D 36	T 1½		Dm	Tc	[illegible]		g112	
	W-1	[illegible]-[illegible]-49				36							55.[illegible]	
[illegible]	[illegible]	[illegible]-24-65	Mrs. [illegible]. Lewis		142	9	L 1½		Dm			165		C
	[illegible]	[illegible]-[illegible]-63	Charles Lewis				L 1½		Dm					
[illegible]	[illegible]	[illegible]-[illegible]-65	R.E. Rogers		200		L 1		Dm	Tcc	.7	170	140.06	
[illegible]	[illegible]	[illegible]-25-65	Milton Clark			C 8	N N		Un	Tc	4.7	160	[illegible].08	
[illegible]	[illegible]	[illegible]-24-[illegible]	M.C. Kemp	1958	246	10	S 3		Dm	Tcc	1.5	165	[illegible].13	
	[illegible]	[illegible]-24-[illegible]											110	
	D	[illegible]-[illegible]-58			246								125	
[illegible]	[illegible]	[illegible]-[illegible]-[illegible]	[illegible]. Gerdz	1950		12	T 30		Dm	Hpb	1.5	156	119.88	C,L,P
	[illegible]	12-11-63	Jack Sundquist	1950	222	12	T 15		Dm					
	D	9-[illegible]-5[illegible]			222	12							117	
[illegible]	[illegible]	[illegible]-24-65	Lola LeBard			12	T 30		Dm			155		P
	[illegible]	12-10-[illegible]		1952	232	12	T 20		Dm					
	[illegible]	[illegible]-[illegible]-5[illegible]											116	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 12 S., R. 8 E.--Continued														
12S/8E-10N3	GS	8-24-65	Mike Sever	1964	243	8	T 3		Dm	Tc	1.0	155	h117	
10Q1	GS	8-24-65	Walter H. Morton		10[illegible]	8	L 1½		Dm			155	103	
10Q2	GS	8-24-65	Walter H. Morton	1963	218	8	S 1½		Dm			155	101.5	P
12R1	GS	8-24-65			30.0	D 48	N N		Ds	Tc	0	82	dry	
	W-[illegible]	1-24-49	Conc. Well		25.5	42								
1[illegible]C1	GS	8-19-65	Joel M. Cornish			8	S E		Dm	Tc	.7	150	114.80	
15E1	GS	8-19-65	J.S. Taylor			10	L E		Dm	Tcc	.2	160	133.49	C,L
	GS	12-15-53	Scott		140	D	J E		Dm				131.8	
	W-4	1-24-49	Scottys House		140								133.0	
15E2	GS	8-19-65	Joel M. Cornish			10	L 1		Dm	Lsd	0	155	141.97	
15K1	GS	8-19-65	William Ivy	1961	301	C 10	T 20		Dm	Hpb	.4	150	120.11	C,P
	GS	8- 2-63	William Ivy				T E							
15M1	GS	8-19-65	George Summerville		297	8	S E		Dm	Tc	.4	155	142.1[illegible]	
	GS	12-15-53	J.W. Moore	1952	232	8	T 10		Ir					
15N1	GS	8-19-65	Davis and Gunderson	1965	200	8	S 3		Un	Tc	2.0	135	h115	L
	D	5-12-65			200	8							120	
15Z1	D	1925	Mrs. Bertha Chamberlain	1925	150	C 8						135	125	L
16R1	GS	8-28-65	Otis Johnson		193				Un			140		C
17P1	GS	8-10-65				6	L N		Un	Tc	1.0	300	219.55	
	GS-17X1	1- [illegible]-54			253.5	6	N N		Un				209.3[illegible]	
17Z1	D	1925	B.L. Reich	1925	202	C [illegible]						209	1[illegible]	L
22E1	GS	8-[illegible]-65	Clarence E. Pratt				T 40		Dm	Hpb	1.5	110	109.36	C,P,W
	GS	8- 2-63	J.M. Cornish				T E		Dm					
	GS	12-[illegible]-53	A.F. Demes	1929	226	16	T 40		Dm					
	W-[illegible]	1-24-49	Beemans Ranch											
22K1	GS	8-[illegible]-65	Joel M. Cornish	1958		16	T 125		Un	Bpb	.4	95	89.14	C,P
	GS	8- 2-63	J.M. Cornish				T 125		Ir					
22R1	GS	8-[illegible]-65				N	N N		Ds			[illegible]		
	GS	12-[illegible]-53			56.0	D 48	N N		Ds	Tc	[illegible]0		dry	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. [illegible] E., R. [illegible] M.--Continued														
12S/8E-[illegible]F1	[illegible]	[illegible]-14-65	Joel M. Cornish			16	T 150		Un			140		C,P
	GS	7- 2-63	J.M. Cornish				T 150		Ir					
24Q1	GS	[illegible]-19-65	Joel M. Cornish		181.6	12	N N		Un	Tc	1.4	80	99.86	C,P
	GC	12-11-53	James Brooks		220	12	T 50		Ir				85.6	
25G1	GS	[illegible]-18-65				N	N N		Ds			40		
	GC	12-11-53			36.0	D 10	N N		Ds	Lsd	0		dry	
	W-10[illegible]	9-21-49				10							65.5	
25Z1	D	1926	T.A. Hawns	1926	245	8						50	53	L,P
26C1	W-9	1-24-49			102.5	8						75	87.6	C,L,P
	D	1925	John H. Naeve	1925	120	C							87	
26H1	GS	[illegible]-18-65	George Vallece		63.5	D 60	S E		Un	Tcc	.5	60	62.25	
27A1	GS	[illegible]-19-65			82.8	4	N N		Un	Tc	.7	70	73.27	
27B1	GS	[illegible]-18-63	Joel M. Cornish				T 15		Un			80		
	GS	12-11-53	Borrego Wells Mutual Water Co.	1947	214	12	T 15		Un	Hpt	1.8		71.0	P
27D1	GS	[illegible]-19-65			153.0	12	N N		Un	Tc	1.0	114	117.20	
	GS	12-11-53			156.0	12	N N		Un				113.6	
27F1	GS	[illegible]-19-65	Little Borrego (Site)		35.9	8	N N		Ds	Tc	1.1	100	dry	C,L,P
	GS	12-15-53			99.9	8	N N		Un				86.69	
	W-[illegible]	1-24-49	Borrego Hotel		103	8							86.8	
	D	1926	Borrego Town Site	1926	122	C 8							81	
T. 13 S., R. 8 E.														
13S/9E-22A1	GC	8-14-65	T.M. Jacobs		412	6	T 10		Un	Tc	.8	-10	r105.30	L
	GS	7-29-63	T.M. Jacobs	1953		R 6	T 10		Ir					
	GS	12-15-53	Paul B. Zilk	1953		6	T E		Ir					
22A2	GS	[illegible]-14-65	T.M. Jacobs	1961	667	14	T 75		Ir			-10	(g)	P,W
	GS	[illegible]-29-63	T.M. Jacobs	1961	667	R	T 75		Ir					
	GS	8-14-63		1961	667	R 14	T 75		Ir	Tap	3.0		g101.7	
23D1	GS	8-12-65	T.M. Jacobs		445	14	N N		Un	Tc	0	-15	r110.05	C,P,W
	GS	12-15-53	Beurkle Bros.			12	T 75		Ir					
23D2	GS	8-14-65	T.M. Jacobs	1965	656	R 14	T 75		Ir	Tap	.7	-15	(g)	P

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 12 S., R. 2 E.--Continued														
12S/2E-27B1	GS W-6	8-16-65 1- 2-51	Berkeley			R 16	N N		Un	Tc	1.5	-20	76.22 74.6	C
29A1	GS W-5	8-25-65 1- 4-49	Baileys well		18.0 29.0	D 48 42	N N		Ds	Tc	0	0	dry dry	
30M1	GS W-13	1-20-66 1-24-49			59.1	8 8	N N		Un	Tc	1.0	38	45.69 50.6	C
34Z1	GS DA	8- 2-65 1914	Grace Ambrook		500				Ds			-20		
T. 13 S., R. 4 E.														
13S/4E-2B1	GS	9- 9-65	Mashay		(p)	D	Si Gr		Dm			2,600	(n)	P
2C1	GS	9- 9-65	Mashay		(p)	D	Si Gr		Dm			2,800	(n)	P
2P1	GS	9- 7-65			3.2	D 36	Si Gr		Dm	Tc	1.3	2,800	nl.99	P
4E1	GS	9-10-65	Golconda Utilities		200	C 6	S 3		Dm	Tcc	.5	4,240	49.81	P
5B1	GS D	9-10-65 1- -61	A.R. Bickensrud	1961	255	C	N N		Dm			4,100	(n)	P
5B2	GS	9-10-65	Staude			D 72	J 1		Dm			4,100		
5B3	GS	9-10-65	San Diego County, Division of Roads	1942	32.0	D 36	J 10		Un	Tap	0	4,100	27.18	
5B4	GS	9-10-65	H.A. Wallenberg	1952	52	D 36	J 2		Dm	Tcc	.5	4,100	15.17	
5B5	GS	9-10-65	E.F. Hayton			J			Un	Tcc	0	4,100	19.80	
9G1	GS	9-10-65	Golconda Utilities		483.0	8	N N		Un	Tc	1.0	4,320	431.09	
10ZS1	GS	9-10-65	J. Herron			D			In			3,400	(n)	P
14E1	GS	9- 8-65			(p)	D	N N		Un			3,440	(n)	P
14ES1	GS	9- 8-65	Bruce Harrington				Si Gr		Dm			3,440	(n)	P
14Q1	GS	9- 7-65	Herman Johnson			D 180	L G		Dm	Tcc	0	3,440	46.67	
14Q2	GS	9- 7-65	Bruce Harrington Cold Beef Mine		118	D 240	L G		Un	Lsd	0	3,400	85	P

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 13 S., R. 4 E.--Continued														
13S/4E-4R01	GS	[illegible]-7-65					Si Gr		S			[illegible]	(n)	P
T. 13 S., R. 5 E.														
13S/5E-2B1	GS	[illegible]-24-65			151.[illegible]	10	L N		Un	Tcc	0	[illegible],360	149.94	
	GS-2X1	11-[illegible]-53	Los Arenas Ranch		175	D 12	L N		Un				150.64	
[illegible]	GS	[illegible]-[illegible]-65	Jack Napierskie		224.[illegible]	6	T G		Un	Tc	[illegible].0	2,405	191.50	
[illegible]	[illegible]	[illegible]-25-65			6.[illegible]	D 96	N N		Ds	Tc	0	2,700	dry	
[illegible]	[illegible]	[illegible]-[illegible]-65			6.[illegible]	D 66	N N		Ds	Tc	0	2,700	dry	
5B3	[illegible]	[illegible]-[illegible]-65			3.5	D 132	N N		Ds	Tcc	1.0	2,700	dry	
5F1	[illegible]	[illegible]-25-65			2.5	D 300	N N		Ds	Tc	0	2,730	dry	
[illegible]	[illegible]	9- [illegible]-64			5.0	D 72	N N		Ds	Tc	0	2,720	dry	
[illegible]	[illegible]	9- [illegible]-65			3.[illegible]	D	Si Gr		Ds	Tcc	0	2,[illegible]00	dry	
6B1	[illegible]	9- [illegible]-65	D.D. Mastro	1962	15[illegible]	8	L W		Dm	Tcc	1.0	2,800	g78.[illegible]	P
6G1	[illegible]	9- [illegible]-65	J. Richey	1960	115	48	L 3/4		Dm	Tc	0	2,340		
6G3	[illegible]	9- [illegible]-65	W.W. Wood	1962	112	40	L W		Dm	Tcc	[illegible]	2,340		
10N1	GS	9- [illegible]-65	Guy Urguhart	1941	23.[illegible]	D 36	L N		Un	Tc	1.7	[illegible],3[illegible]	12.4[illegible]	
25Z1	GS	9- 4-65	Anza-Borrego State Park	1930	[illegible]		N N		Ds			2,630		
	D	1930			10[illegible]				Ds				dry	
27N1	GS	8-[illegible]-65	Daly Corp.	1964	445	13	N N		Un	Tc	1.[illegible]	2,310	281.05	
32RS1	GS	8-26-65	Daly Bros. (Pepper Tree Spring)						S			2,800	(n)	P
33E1	GS	8-26-65	Daly Bros.	1936	[illegible].[illegible]	120	N N		Ds	Tcc	.5	2,560	dry	
35P1	GS	8-27-65	Charbonneau		145	8	L W		Dm	Tc	1.0	2,070	137.8	
	GS-35X1	3- 7-55		1955	150	C 8	N N		Un				114.45	
T. 13 S., R. 6 E.														
13S/6E-2PS1	DWR	1- -59	Anza-Borrego State Park, Blue Spring						S				(n)	C

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 13 S., R. 7 E.														
13S/7E-11PS1	GS	8-15-65	Anza-Borrego State Park, Dave McCain Spring		(p)				Ds			2,80	dry	
T. 13 S., R. 9 E.														
13S/9E-18Z1	M-262	1909	Hanna well									230		
24Z1	W-13	1-10-49											48.8	C
25Q1	GS	8-16-65			40.3	D 36	N	N	Un	Tc	1.2		31.34	
T. 14 S., R. 5 E.														
14S/5E-1FS1	GS	8-29-65	Spencer						S			1,90	(n)	P
	GS	10- -20	T. L. Works						Dm					
1N1	GS	8-28-65	Pierson	1957	92	6	J	G	Dm	Tc	.5	2,030	1.48	
1N2	GS	8-28-65	Baumbaugh	1957	86	6	J		Dm	Bpb	.5	2,0	6).96	L,P
	D	6- 6-57	William Baumbaugh		86	C 6								
2D1	GS	8-27-65	J. Kinser						Dm			2,110		
	GS-3X1	3-19-56	Lucy Joslin	1956	169	C 8	N	N	Un				127	
2D2	GS	8-27-65	Miller		83.5	10	N	N	Ds	Tc	0	2,080	dry	
	GS-3X1	1- 5-54	Ritzerson		98.5	10	L	N	Un				96.05	
2E1	GS	8-27-65	Miller		97.7	10	L	N	Ds	Tc	.3	2,080	dry	
	GS-3X2	1- 5-54			200	12	L	N	Un				91.0	
2G1	GS	8-27-65	Mrs. Mayer		b172.3	b7	N	N	Un	Tc	1.66	2,060	86.27	W
	GS-2X1	11-25-53	Strahlmann		104	10	T	G	Dm					
2H1	GS	8-27-65	Mrs. Mayer		128				Dm			2,056		
	GS-2X2	3- 7-55	E.T. Brown	1955	130	C 6	J	G	Dm	Tc	.5		2.1	
2H2	GS	8-28-65	F.A. Einer, well 4	1965	44.5	12	N	N	Ds	Tc	0	2,030	dry	
2H3	GS	8-27-65	Mrs. Mayer		64.0	D 48	N	N	Ds	Tc	0	2,055	dry	
2J1	GS	8-28-65	F.A. Einer, well 3	1964	153	10	T	20	Ir	Tap	1.5	2,030	89.5	
	GS	8-28-65											3.19	
2J2	GS	8-28-65	F.A. Einer, well 2	1962	86	8	T	1	Ps	Tap	.5	2,050	67.34	C,P

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See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. [illegible] S., R. [illegible] E.--Continued														
[illegible]-3R1	GS	[illegible]-65	F.A. Einer, well 1	1962	261	10	T 25		Ir	Tap	[illegible].3	2,[illegible]4	g110.69	C,L
	GS	[illegible]-65											m92.[illegible]	
[illegible]R2	GS	[illegible]-65	F.A. Einer		66.5	11	N N		Ds	Tc	.5	2,040	dry	
3R1	GS	[illegible]-65			34.0	D 72	N N		Ds	Lsd	0	2,112	dry	
	GSE	1910			126								dry	
[illegible]R1	GS	[illegible]-65	Taylor Spring						S			2,560	(n)	P
12FR1	GS	[illegible]-65	Mrs. C. Spencer		(p)				Dm			2,[illegible]00	(n)	C,P
	GS	19[illegible]-20	Campbell Ranch						Ir					
12R1	GS	[illegible]-65	Mrs. C. Spencer	1961	230	12	T 30		Ir	Tc	1.8	1,[illegible]20	140.81	P
22R1	GS	[illegible]-65	Mrs. C. Spencer		2.1	D 24	Si Gr		S	Tc	0	3,360	n.[illegible]8	P
22R2	GS	[illegible]-65	Mrs. C. Spencer		2.3	D 18	Si Gr		S	Tc	0	3,365	n1.34	P
22R3	GS	[illegible]-65	Mrs. C. Spencer		2.1	D 24	Si Gr		S	Tc	0	3,368	n1.09	P
23R1	GS	[illegible]-65	Mrs. C. Spencer		1.9	D 24	Si Gr		S	Tc	.2	3,040	n.15	P
T. [illegible] S., R. [illegible] E.														
14[illegible]-1	GS	9- 1-65	Tate			6	L H		Un	Tc	.[illegible]	1,645	[illegible].24	
[illegible]	GS	9- 1-65	Tate			8	S		Dm			1,640		
[illegible]	GS	9- 1-65	C. Neuman						Un			1,640		
[illegible]D1	GS	9- 1-65	A.E. Richards		7.5	8	N N		Ds	Tc	1.5	1,680	dry	
[illegible]	GS	9- 1-65	W.P. Zornes	1962	100	4½	S 1		Dm	Tap	1.9	1,640	58.64	
[illegible]	GS	9- 1-65	W.P. Zornes	1962	70.0	12	N N		Ds	Lsd	0	1,655	dry	
[illegible]	GS	9- 1-65	A.E. Richards		102	36	S		Dm			1,660	85	
	GS	3-14-67		1957	104	36	N N		Un	Tc	.2		82.42	
[illegible]4	GS	9- 1-65	A.E. Richards	1960		6	N N		Un			1,660	85	L
	GS	11-22-66			121	7	N N		Un				73.6	
[illegible]E1	GS	9- 1-65	Joe Lewis			8	J E		Dm	Tcc	1.5	1,670	85.77	
	GS	3-14-67	Tracy Dale		86	C 8	J 1		Dm				74	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)		Type of pump and power		Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
												Description	Distance above or below(-) lsd (feet)			
T. 14 S., R. 6 E.--Continued																
14S/6E-8F1	GS	[illegible]-31-65	Al Demeusy		98	C	6	N	N		Un	Tc	1.3	1,[illegible]	61.84	
8F[illegible]	[illegible]	9- 1-65	Bishop	1964	[illegible]		6	S	E		Dm	Tcc	.4	1,645	61.[illegible]	
8F3	GS	9- 1-65			109.0		8	N	N		Un	Tc	1.0	1,645	65.68	W
	[illegible]	7-16-[illegible]			[illegible]	C	[illegible]	N	N		Un					
8G1	[illegible]	[illegible]-31-65	George Manewal	1959	126		9	S	1		Dm	Tap	1.1	1,640	[illegible].99	C,L,P
[illegible]	GS	8-31-65	Al Demeusy		65.[illegible]		3[illegible]	L	N		Un	Tpb	2.0	1,640	5[illegible].97	C
	[illegible]	[illegible]-14-5[illegible]	George Manewal		68						Dm				5[illegible]	
8G3	[illegible]	[illegible]-31-65	Al Demeusy	1963	118	R	8	S	1		Dm	Tap	1.4	1,640	64.[illegible]5	P
[illegible]4	[illegible]	[illegible]- 1-65	Hazard					L	G		Dm			1,64[illegible]		
[illegible]	[illegible]	9- [illegible]-65	McCane		[illegible]7.5		12	N	N		Un	Tc	[illegible].0	1,58[illegible]	[illegible].[illegible]	
[illegible]	[illegible]	9- 4-65	McCane		186		8	L	N		Un	Tc	.7	1,575	34.6[illegible]	
[illegible]G3	[illegible]3	9- 4-65	McCane		11.0	D	48	N	N		Ds	Tc	[illegible]	1,575	dry	
	[illegible]8-9X1	1- 9-54	Campbell Ranch					L	W		S					
10B1	[illegible]	[illegible]-30-65	San Diego County Park		6.6	D	15	N	N		Ds	Tc	1.4	1,5[illegible]	dry	C
	[illegible]8-3X1	11-25-53	Vallecito State Station			D	14	L	N		Dm	Hpb	1.7		[illegible].3	
[illegible]	[illegible]	[illegible]-30-65	San Diego County Park	1954	[illegible]		8	S	E		Dm	Tcc	[illegible].9	1,[illegible]	2[illegible].[illegible]	C
10B3	[illegible]	[illegible]- 4-65	San Diego County Park	1956	40			N	N		Un			1,[illegible]		
10D1	[illegible]	9- [illegible]-65	Mrs. C. Spencer	1962	114		12	T	15		Ir	Tc	[illegible].0	1,540	[illegible].[illegible]	P
	[illegible]	9- 3-65													m25.91	
10[illegible]	[illegible]	9- [illegible]-	Mrs. C. Spencer	1965	[illegible]0		12	T	[illegible]		Ir	[illegible]	[illegible].0	1,[illegible]	[illegible].[illegible]	[illegible]
10M1	[illegible]	9- [illegible]-65			[illegible].[illegible]		12	L	W		Ds	Tc	1.0	1,[illegible]	dry	
	HE	3-30-[illegible]			[illegible]			L	W			Lsd			14	
10X1	[illegible]	[illegible]- [illegible]-65	Mrs. C. Spencer		[illegible]			L	W		Ds			1,56[illegible]		
	[illegible]8-10X1	1- 9-54	Campbell Ranch				1[illegible]	L	W		S					
[illegible]1	[illegible]S	[illegible]- [illegible]-[illegible]	Mrs. C. Spen[illegible]				12	L	W		S	Tc	.[illegible]	1,[illegible]	[illegible].9	F,W
	[illegible]3-16X1	1- 9-54	Campbell Ranch		91.[illegible]		12	N	N		Un					

[illegible] See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)		Type of pump and power		Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
												Descrip-tion	Distance above or below (-) lsd (feet)			
T. 14 S., R. 6 E.--Continued																
14S/6E-17G1	GS	9- 2-65	Mrs. C. Spencer		65.0	D	42	L	W		Ds	Tc	1.5	1,660	dry	
	GS-17X1	1- 5-54	Campbell Ranch		74		8	L	W		S	Bhc	1.5		70.05	
	35NS1	GS	9- 6-65	U.S. Government							Ds			2,640	dry	
T. 14 S., R. 7 E.																
14S/7E-16N1	GS	9- 4-65	Anza-Borrego State Park				8	L	N		Un	Tc	2.0	1,132	179.78	
	GS	3-19-56	W.E. Martin	1955	210	C	8	N	N		Un				176.00	
	18F1	GS	9- 5-65	San Diego County Park, Burro Spring		5.8		24	Si	Gr	Dm	Tc	-4.0	1,360	n5.62	C,P
	18G1	GS	9- 5-65	San Diego County Park	1965	90		8	Si	Gr	Dm	Tc	1.5	1,280	n+1.38	P
	18MS1	GS	9- 5-65	San Diego County Park							Un			1,400	(n)	P
	18P1	GS	9- 5-65	San Diego County Park		1.5	D	18	Si	Gr	R			1,400	(n)	C,P
	18P2	GS	9- 5-65	San Diego County Park		3.9	D	42	Si	Gr	Dm	Tcc	-1.0	1,400	n2.70	C,P
	18P3	GS	9- 5-65	San Diego County Park, Owen Spring	1965	4.5	D	48	Si	Gr	Dm	Tcc	-2.0	1,400	n3.7	P
	18P4	GS	9- 5-65	San Diego County Park		2.7	D	72	Si	Gr	Dm	Tcc	0	1,400	n1.76	C,P
	18P5	GS	9- 5-65	San Diego County Park, Hot Spring		3.1	D	72	Si	Gr	R	Tc	0	1,400	n1.70	C,P
	18Q1	GS	9- 5-65	San Diego County Park		7.7	D	48	Si	Gr	Un	Tc	-4.0	1,400	n6.06	C,P
	18QS1	GS	9- 6-65	San Diego County Park							Un			1,375	(n)	C,P
	19AS1	GS	9- 5-65	Anza-Borrego State Park					Si	Gr	Un			1,360	(n)	P
	25NS1	GS	4- 4-66	Anza-Borrego State Park, Palm Spring	1858						S			880	(n)	P
		M-268	1909	Palm Spring												
	34B1	GS	5- 5-66	L. Worden	1958	665	C	8	N	N	Un	Tc	2.0	985	385.12	
	34G1	GS	5- 5-66	Dr. C.W. Todd	1963	189.4	C	6	N	N	Ds	Tc	0	1,020	dry	L
	34R1	GS	5- 5-66	T.N. Hays		0			N	N	N	Ds			1,090	
	0					230									dry	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 14 S., R. 7 E.--Continued														
14S/7E-34R2	GS O	5- 5-66	T.N. Hays		0 230	N	N N		Ds			1,090	 dry	
34R3	GS O	5- 5-66	T.N. Hays		0 230	N	N N		Ds			1,080	 dry	
34R4	GS O	5- 5-66	T.N. Hays		180.5 320	8	N N		Ds	Tc	2.1	1,075	dry dry	
T. 15 S., R. 6 E.														
15S/6E-10NS1	GS	9- 6-65	U.S. Government						Ds			2,880	dry	
T. 15 S., R. 7 E.														
15S/7E-4HS1	GS	9- 6-65	Federal Water Reserve, 107						Dm			1,320	(n)	P
4M1	GS O O	9- 6-65 1951 1931	R.A. Crawford	b1950 1931	24.2	D 78	C 10		Dm	Bhc	.3	1,500	14.52 5 (n)	P
12D1	GS	4- 6-66	Anza-Borrego State Park, Well of the Eight	1912	116.5	C 14	N N		Ds	Tc	2.5	795	dry	
	GS-12X1 D	1- 5-54 1912	Echoes		160.5 250	14	N N						dry	
12D2	GS	4- 6-66	Anza-Borrego State Park	1912	202.0	C 12	N N		Ds	Tc	2.0	895	dry	
13NS1	GS	4- 6-66	Anza-Borrego State Park		.8		N N		Un	Lsd	0	800	.60	P
26B1	GS	4- 6-66	Anza-Borrego State Park, Bow Willow Ranger Station			D 60	C 1		Dm	Tf	2.65	955	3.33	C
T. 15 S., R. 8 E.														
15S/8E-4K1	GS	4- 5-66	Anza-Borrego State Park Palmitas Spring	1966	3.0	D 12	N N		Un	Lsd	0	680	1.3	
4K2	GS	4- 5-66	Anza-Borrego State Park	1966	1.8	D 12	N N		Un	Lsd	0	640	1.7	
8P1	GS	4- 5-66	Anza-Borrego State Park		18.7	C 6	N N		Ds	Tc	0	720	dry	

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below (-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 15 S., R. 7 E.--Continued														
[illegible]e-12L	[illegible]	4- -66	Anza-Borrego State Park		5.0	N	N		D			48		C,P
	[illegible]	[illegible]-56-17	F.A. Strabley	1914	30	12	L H		Dm	Lsd			26	
13E1	GS	4- -66	Anza-Borrego State Park			12	N N		D	Tc	3.75			
	DGC-7-13	6- -54	Carrizo Valley Oil Co.	1954	90									
14E1	GS	4- -66	Anza-Borrego State Park			12	N N		Un	Tcc	2.0		36.	
	D	1955	Johnson	1955	106	12							37	
15E1	GS	4- -66	Anza-Borrego State Park			12	N N		Un	Tc	1.4			P
	D	1955	F.A. Phillip	1955	140	12							26	
15W1	GS	5- 4-66	Lyle Burns		100	P	L H					600		
17	GS	5- -66	W.E. Martin			C	T D		Un	Tc	1.0	610		W
	7S-8X	5-14-53	Stubb Ranch	19		12	N N		Un					
17W1	GS	5- 4-66	W.E. Martin		85	C	S		Dm	Tcc	1.0	610		P
17W3	GS	5- 4-66	Jerry Smith		80	6	J 3/4		Un	Tcc	.5	600	56.36	
17W4	GS	5- 4-66		1912	4.9	6	N		Ir	Tc	.5	610	dry	
					60									
17W5	GS	5- 4-66					N N		Un	Tc	1.0	605	56.	
17Z1	GS	5- 4-66	W.E. Martin	1943	100	C	12 L	N	Un	Tc	0	630	43.	C
	GS-7X2	5- 5-54	Stubb Ranch		106		12 N		Un				49.	
17Z3	GS	5- 4-66	C.I. Shears	196	80	C	6		Dm	Tcc	.5	610	63.6	
17Z2	GS	5- 4-66	Shears, Sims, Martin, and Barber	196	94		8	N	Un	Tc	2.0	600	50.	
17Z4	GS	5- 4-66	W.E. Martin		100	C	8		Un	Tc	1.0	640	hc	
17Z5	GS	5- 4-66	W.E. Martin	1957		C	N	N	Un	Tc	1.5	600	49.24	
17W2	GS	5- 4-66	Lawrence Harvy			C	6 L	G	Un	Tc	.7	620	73.	
17Z3	GS	5- 4-66			188	C	6 L	H	Un	Tc	.5	620	71.09	
17Z6	GS	5- 4-66	C.C. Edward	1959	125		12 T	D	Un	Tc	2.5	620	66.20	P

See footnotes at end of table.

State well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point: Description	Measuring point: Distance above or below(-) lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 15 S., R. 8 E.--Continued														
15S/8E-19G1	GS	4- 4-66	Mrs. Elizabeth Phillips						Un	Tc	2.0	67[illegible]	118.29	P
	D	2- -54	Addington	1954	[illegible]	R	[illegible]		Un				[illegible]	
19L1	GS	5- 4-66	W.E. Martin	1961	[illegible]		8	N	Ds	Bhc	.5	725	dry	
20A1	[illegible]	4- 6-66	Addington		3.0	D	N	N	Ds			6[illegible]		
	DS	11-11-54			24.2	D	40	N		Tc	0		dry	
20M1	GS	4- 6-66	Addington				12	T	D	Un			64[illegible]	
	GS	11-11-54		1954	187	R	12	N	N	Un	Tc	1.8		88.7
	D	3- -54												[illegible]
T. 15 S., R. 9 E.														
15S/9E-11Z1	GS	4-26-66	Anza-Borrego State Park				P	N	N	Ds			[illegible]	
	DA	1914	J.M. Holloway, Barrett Drill hole	1914	[illegible]									4[illegible]
T. 16 S., R. 7 E.														
16S/7E-4ES1	GS	5-24-66	U.S. Bureau Land Management (BLM)			D		Si	Gr	S			[illegible]	(n)
7M1	GS	5-24-66	BLM					N	N	S			3,900	(n)
7MS1	GS	5-24-66	BLM					N	N	S			4,000	(n)
8MS1	GS	5-24-66	BLM			D		N	N	Un			1,150	dry
8DS1	GS	5-[illegible]-66	BLM					N	N	S			4,0[illegible]	(n)

a. Small seep, very little flow.
b. Well redug.
c. Casing extended to surface in hand-dug well.
d. Water level deeper than 29 ft.
e. Measured by air-line gage.
f. Obstruction above water table.
g. Well being pumped.
h. Tape smeared.
i. Drilling at time of visit.
j. Well reported to be drilled to bedrock.
k. Questionable measurement.
n. Well pumped recently.
p. Flowing.
s. [illegible].
u. No flow.
r. Nearby well being pumped.

APPENDIX B

TABLE 2. RECORDS OF WATER LEVEL IN WELLS

Table 2.--Records of water level in wells

Table 2 includes all records of water-level measurements made in wells for which five or more measurements were made; if fewer than five measurements were made, the records are given in table 1.

Altitudes are for the land-surface datum at the well and are in feet above mean sea level. Land-surface datum is a plane of reference which approximates land surface. Altitudes are given in whole feet and were interpolated from topographic maps.

Depths of wells, given in whole feet, were reported by owners or taken from drillers' logs; depths given in feet and tenths of a foot were measured from land-surface datum by the Geological Survey.

Water level is measured depth to water, in feet, below or above (+) land-surface datum. That is, the altitudes of the measuring points, as reported above or below land-surface datum, have been subtracted from or added to the measured water level. If more than one measuring point has been used, they were checked in the field and related to each other. Thus, all measurements are referred to a common datum. The latest measuring points used by the Geological Survey are listed in table 1. Special conditions indicated by letter: a, well being pumped; b, well pumped recently; c, nearby well being pumped; f, dry; p, well destroyed; q, tape smeared; r, measured by California Department of Water Resources; s, reported by owner, driller, or pump company; t, well flowing.

Date	Water level	Date	Water level	Date	Water level

9S/6E-36A1. Depth 334 ft in September 1953 and 207.0 on July 22, 1965. Altitude about 570 ft. All measurements by U.S. Geological Survey.

Nov. 18, 1953	17.17	Nov. 5, 1958	16.93	Mar. 20, 1964	16.67
Jan. 6, 1954	16.79	Feb. 27, 1960	16.55	July 22, 1965	16.83
Feb. 9	16.79	Mar. 15, 1962	16.55	Mar. 3, 1966	16.83
Mar. 15, 1957	16.80				

10S/6E-8B1. Depth reported to be 690 ft in 1945. Altitude about 760 ft. All measurements by U.S. Geological Survey.

Nov. 28, 1955	257.83	Feb. 2, 1960	264.08	Oct. 31, 1963	283.91
Nov. 16, 1956	255.50	Nov. 22	266.46	Mar. 20, 1964	277.83
Nov. 16	a299.6	Mar. 8, 1961	267.26	Nov. 12	276.68
Nov. 26, 1957	257.84	Oct. 26	270.43	Mar. 19, 1965	275.05
Mar. 15, 1958	257.94	Mar. 15, 1962	a286.99	July 23	278.10
Nov. 5	278.27	Nov. 2	283.88	Oct. 26	278.17
Nov. 24, 1959	265.54	Mar. 15, 1963	272.92	Mar. 3, 1966	278.21

10S/6E-17J1. Altitude about 660 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 20, 1953	s179	Jan. 27, 1955	r195	Aug. 9, 1965	211.71
Nov. 9, 1954	180.63	Jan. 27	a r231		

10S/6E-21A1. Depth 310 ft in 1933 and 321.5 ft on June 24, 1952. Altitude about 640 ft. All measurements by U.S. Geological Survey except as indicated.

June 24, 1952	136.36	Aug. 19, 1953	c146.12	Nov. 25, 1953	138.55
May 1, 1953	139.01	Sept. 2	c142.95	Dec. 10	137.82
May 15	140.01	Sept. 17	c142.63	Dec. 21	c137.79
May 28	c140.75	Oct. 1	141.47	Jan. 6, 1954	c138.42
June 11	a141.41	Oct. 16	140.98	Jan. 7	c138.48
June 25	a142.10	Oct. 21	148.7	Jan. 21	139.52
July 1	a152.6	Oct. 29	139.91	Feb. 5	139.04
July 11	a143.16	Nov. 11	139.30	Feb. 18	144.27
Aug. 5, 1953	c151.26	Nov. 19	147.1	Feb. 24	138.79

Date	Water level	Date	Water level	Date	Water level

10S/6E-21A1.--Continued.

Mar.	4,	1954	c139.98	Feb.	27,	1960	163.37	Jan.	6,	1965	169.78
Mar.	17		140.17	Nov.	22		165.33	Feb.	1		171.29
Apr.	2		139.57	Mar.	8,	1961	167.80	Mar.	3		169.05
Apr.	15		c143.38	Oct.	26		168.95	Apr.	5		168.82
May	17		c147.15	Mar.	15,	1962	166.69	May	5		177.16
May	28		148.65	Nov.	2		169.52	May	24		174.61
Aug.	13		c153.6	Mar.	15,	1963	166.87	June	29		175.34
Aug.	27		c153.7	Oct.	31		168.84	July	22		185.62
Nov.	9		148.18	Jan.	6,	1964	171.21	Sept.	7		174.55
Mar.	7,	1955	149.70	Feb.	5		173.65	Oct.	4		171.49
Aug.	3		r160.2	Mar.	9		169.35	Oct.	26		170.94
Nov.	28		147.12	Mar.	20		167.02	Nov.	5		170.37
Mar.	18,	1956	153.20	Apr.	3		176.7	Dec.	10		169.79
July	2		c161.62	May	8		179.0	Jan.	4,	1966	170.35
Nov.	16		149.99	June	3		181.5	Feb.	1		170.37
Mar.	15,	1957	154.38	July	7		179.4	Mar.	3		170.59
Nov.	26		154.04	Aug.	5		181.92	Mar.	10		170.55
Mar.	15,	1958	151.93	Sept.	11		178.3	Apr.	5		172.60
Nov.	5		159.85	Sept.	30		175.25	May	3		172.36
Mar.	12,	1959	156.30	Nov.	2		171.86	June	2		176.51
Nov.	24		161.31	Dec.	1		169.91	July	6		172.60
								Aug.	1		171.44

10S/6E-24K1. Depth 500 ft in 1928, 100 ft on Nov. 18, 1953, and 0 ft on March 3, 1966. Altitude about 600 ft. All measurements by U.S. Geological Survey.

Nov.	18,	1953	69.65	Mar.	15,	1958	71.94	Mar.	15,	1963	28.02
Feb.	24,	1954	69.45	Mar.	12,	1959	73.83	Oct.	31		29.51
Nov.	9		69.79	Feb.	27,	1960	91.95	Mar.	20,	1964	31.30
Mar.	7,	1955	69.34	Nov.	22		49.36	Nov.	13		15.35
Nov.	28		70.69	Mar.	8,	1961	49.80	Mar.	19,	1965	18.31
Mar.	18,	1956	70.45	Oct.	26		10.92	July	23		20.65
Nov.	16		71.18	Mar.	15,	1962	19.02	Oct.	26		21.30
Mar.	15,	1957	71.04	Nov.	2		24.80	Mar.	3,	1966	(p)

Date	Water level	Date	Water level	Date	Water level

10S/6E-29N1. Depth reported to be 385 ft in 1950. Altitude about 600 ft. All measurements by U.S. Geological Survey.

1952	85	Mar. 15, 1957	(a)	Nov. 2, 1962	117.19
Nov. 19, 1953	90.94	Nov. 26	105.31	Mar. 15, 1963	119.68
Feb. 3, 1954	94.12	Mar. 15, 1958	107.47	Oct. 31	117.84
Feb. 5	95	Nov. 5	119.02	Mar. 20, 1964	118.73
Feb. 24	93.48	Nov. 24, 1959	111.61	Nov. 12	121.87
Nov. 9	94.22	Feb. 27, 1960	112.56	Mar. 19, 1965	120.54
Mar. 7, 1955	(a)	Nov. 22	114.41	July 30	133.83
Nov. 29	102.39	Mar. 8, 1961	115.85	Oct. 26	123.51
Mar. 18, 1956	100.58	Oct. 26	117.23	Mar. 3, 1966	122.95
Nov. 16	102.01	Mar. 15, 1962	118.00		

10S/6E-34K1. Depth reported to be 203 ft in 1916. Altitude about 530 ft. All measurements by U.S. Geological Survey except as indicated.

1916	s32	Feb. 24, 1954	36.00	July 29, 1965	59.08
June 26, 1952	31.71	Nov. 9	38.30		

10S/6E-35N1. Depth reported to be 325 ft when drilled. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

Dec. 21, 1954	r26.50	Nov. 2, 1962	43.45	Apr. 5, 1965	42.00
Mar. 7, 1956	27.21	Mar. 15, 1963	a94.42	May 24	43.26
Nov. 28	29.00	Oct. 31	42.53	June 24	42.83
Mar. 18, 1957	34.01	Jan. 6, 1964	41.10	July 30	43.15
Nov. 16	31.20	Feb. 5	b62.00	Aug. 5	52.30
Mar. 15, 1958	38.64	Mar. 9	b77.05	Oct. 4	45.14
Nov. 26	43.48	Mar. 20	43.15	Oct. 26	91.39
Mar. 15, 1959	39.26	Apr. 3	b72.67	Dec. 10	43.20
Mar. 12, 1960	43.40	July 17	45.49	Jan. 10, 1966	48.00
Nov. 24	41.35	Aug. 3	58.37	Feb. 1	44.20
Feb. 27, 1961	45.41	Nov. 2	42.79	Mar. 4	44.97
Nov. 22	42.05	Dec. 1	42.44	Mar. 10	95.70
Mar. 8, 1962	a47.52	Jan. 6, 1965	50.85	July 6	43.69
Oct. 26	a77.34	Feb. 1	76.47	Aug. 1	42.98
Mar. 15, 1962	39.91				

Date	Water level	Date	Water level	Date	Water level

10S/6E-36Q1. Depth 356 ft in April 1951. Altitude about 825 ft. All measurements by U.S. Geological Survey.

Nov.	19, 1953	45.65	Mar.	19, 1963	59.95	May	5, 1964	64.18
Feb.	24, 1954	46.10	Oct.	31	60.43	May	24	65.01
Nov.	9	53.33	Jan.	6, 1964	58.10	June	29	64.67
Mar.	7, 1955	49.28	Feb.	5	60.03	July	25	65.18
Nov.	28	53.78	Mar.	9	61.66	Aug.	5	65.73
Mar.	18, 1956	56.35	Mar.	20	59.73	Sept.	7	66.64
July	2	54.95	Apr.	3	62.33	Oct.	4	65.96
Nov.	16	55.47	May	8	64.15	Oct.	26	64.82
Mar.	15, 1957	56.68	June	5	66.55	Nov.	5	63.34
Nov.	26	58.95	July	7	67.38	Dec.	10	62.90
Mar.	15, 1958	56.84	Aug.	5	67.95	Jan.	10, 1966	61.46
Nov.	5	64.22	Sept.	11	66.79	Feb.	1	61.49
Mar.	12, 1959	56.60	Sept.	30	66.18	Mar.	4	62.22
Nov.	24	61.35	Nov.	2	63.97	Mar.	10	63.01
Feb.	27, 1960	61.96	Dec.	1	61.72	Apr.	5	63.01
Nov.	22	62.75	Jan.	6, 1965	61.08	May	5	63.94
Mar.	8, 1961	59.69	Feb.	1	60.47	June	2	64.38
Oct.	26	61.46	Mar.	3	61.85	July	6	64.74
Mar.	15, 1962	59.58	Apr.	5	63.32	Aug.	1	66.00
Nov.	2	61.42						

10S/7E-19M1. Depth 418 ft in May 1952. Altitude about 600 ft. All measurements by U.S. Geological Survey.

June	26, 1952	87.22	Nov.	26, 1957	89.74	Mar.	15, 1963	94.10
Nov.	18, 1953	89.42	Nov.	5, 1958	90.82	Oct.	31	93.71
Feb.	24, 1954	all0.55	Nov.	24, 1959	91.40	Mar.	20, 1964	94.12
Nov.	9	88.69	Feb.	27, 1960	91.61	Nov.	11	95.30
Mar.	7, 1955	88.06	Nov.	22	92.19	Mar.	19, 1965	95.98
Nov.	28	90.11	Mar.	8, 1961	92.42	July	23	96.13
Mar.	18, 1956	88.78	Oct.	26	91.85	Oct.	26	96.45
Nov.	16	89.11	Mar.	15, 1962	93.00	Mar.	3, 1966	96.61
Mar.	15, 1957	87.78	Nov.	2	93.64			

Date	Water level	Date	Water level	Date	Water level

11S/6E-5P1. Depth 178.8 ft on November 19, 1953. Altitude about 600 ft. All measurements by U.S. Geological Survey.

Feb.	18, 1953	117.43	Nov.	26, 1957	131.60	Mar.	15, 1962	137.56
Nov.	19	120.94	Mar.	15, 1958	131.80	Nov.	2	138.18
Feb.	3, 1954	121.52	Nov.	5	133.78	Mar.	15, 1963	137.92
Feb.	24	121.65	Mar.	12, 1959	134.01	Oct.	31	138.45
Nov.	9, 1954	124.33	Nov.	24	135.22	Mar.	20, 1964	138.33
Mar.	7, 1955	124.88	Feb.	28, 1960	136.34	Nov.	12	139.29
Nov.	29	127.17	Nov.	22	137.20	Mar.	19, 1965	139.11
Mar.	18, 1956	127.53	Mar.	8, 1961	137.13	Aug.	11	139.97
Nov.	16	129.27	Oct.	26	137.72	Mar.	3, 1966	140.62
Mar.	15, 1957	129.55						

11S/6E-10N1. Depth reported to be 402 ft in 1946, and 386 ft on December 8, 1953. Altitude about 522 ft. All measurements by U.S. Geological Survey except as indicated.

Feb.	18, 1953	48.00	Mar.	15, 1962	64.09	Nov.	12, 1964	67.48
Dec.	8	s54.00	Nov.	2	c65.12	Mar.	19, 1965	66.14
Feb.	28, 1960	64.94	Mar.	15, 1963	63.90	Aug.	4	68.81
Nov.	22	67.60	Oct.	31	64.31	Oct.	25	68.65
Mar.	8, 1961	c65.21	Mar.	20, 1964	63.82	Mar.	3, 1966	67.51
Oct.	26	c65.76						

11S/6E-11D2. Depth reported to be 496 ft in 1946, and 217 ft on November 16, 1953. Altitude about 500 ft. All measurements by U.S. Geological Survey.

Nov.	16, 1953	17.53	Mar.	15, 1962	36.51	Mar.	3, 1965	34.27
Feb.	24, 1954	19.49	Nov.	2	34.40	Apr.	5	c60.06
May	14	a69.26	Mar.	15, 1963	31.18	May	24	c58.92
Nov.	8	c42.18	Oct.	31	32.08	June	29	c56.68
Mar.	7, 1955	19.71	Jan.	6, 1964	30.45	July	30	c60.01
Nov.	29	c45.18	Feb.	5	c54.85	Aug.	3	c54.50
Mar.	18, 1956	24.07	Mar.	9	34.15	Sept.	7	59.97
July	2	c47.74	Mar.	20	31.40	Oct.	4	37.05
Nov.	16	25.37	Apr.	3	c54.70	Oct.	25	49.50
Mar.	14, 1957	c57.84	May	8	44.55	Nov	5	34.01
Nov.	27	c57.48	July	7	40.43	Dec.	10	33.03
Mar.	15, 1958	c51.51	Aug.	5	(a)	Feb.	1, 1966	c51.90
Nov.	5	37.91	Sept.	11	49.97	Mar.	4	a c58.21
Mar.	12, 1959	a c 6.89	Sept.	30	c58.35	Mar.	10	c54.03
Nov.	24	41.59	Nov.	2	33.30	Apr.	5	c51.61
Feb.	28, 1960	c62.74	Dec.	1	31.80	May	3	c57.92
Nov.	22	33.96	Jan.	6, 1965	32.47	June	2	c59.50
Mar.	8, 1961	32.09	Feb.	1	31.23	July	6	c61.34
Oct.	26	31.62						

Date	Water level	Date	Water level	Date	Water level

11S/6E-11M1. Depth reported to be 125 ft in 1912, 78 ft. on Nov. 30, 1917, and 104.3 ft on December 8, 1953. Altitude about 487 ft. All measurements by U.S. Geological Survey.

Nov.	30, 1917	(t)	Mar.	14, 1957	c19.77	Mar.	15, 1962	21.14
Feb.	18, 1953	5.30	Nov.	27	c21.24	Nov.	2	23.34
Dec.	8	6.45	Mar.	15, 1958	18.08	Mar.	15, 1963	21.48
Feb.	3, 1954	6.39	Nov.	4	24.16	Oct.	31	22.43
Feb.	24	9.19	Mar.	12, 1959	20.58	Mar.	20, 1964	21.73
Nov.	8	c10.64	Nov.	24	19.56	Nov.	13	23.60
Mar.	7, 1955	9.03	Feb.	28, 1960	c24.87	Mar.	19, 1965	23.86
Nov.	29	c13.78	Nov.	22	21.96	July	30	28.90
Mar.	18, 1956	13.43	Mar.	8, 1961	20.76	Oct.	25	26.76
Nov.	16	14.79	Oct.	26	22.90	Mar.	4, 1966	24.99

11S/6E-15E2. Depth 117 ft in April 1954 and 112 ft on June 25, 1961. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

Dec.	9, 1953	43.06	Mar.	29, 1957	s50	Oct.	17, 1963	s58.35
Sept.	17, 1954	s48	June	25, 1961	s53.7	Aug.	4, 1965	57.98
Mar.	26, 1956	s52	June		s54.1			

11S/6E-15F1. Depth reported to be 122 ft in 1950. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

	1950	s37	Nov.	29, 1955	49.64	Nov.	27, 1957	q52.94
Feb.	19, 1953	40.77	Mar.	18, 1956	47.98	Mar.	5, 1958	51.60
Dec.	8	b45.7	Nov.	16	a56.0	Nov.	4	59.29
Mar.	7, 1955	48.05	Mar.	15, 1957	50.05	Aug.	5, 1965	q60.21

Date	Water level	Date	Water level	Date	Water level

13/6E-32A1. Depth reported to be 134 ft in 1948, 116 ft on November 20, 1949, and 125.6 ft on Aug. 2, 1961. Altitude about 540 ft. All measurements by U.S. Geological Survey except as indicated.

	1945	s57	Mar.	15, 1962	c57.70	Apr.	5, 1965	61.69
Feb.	19, 1953	50.10	Nov.	2	c58.10	May	5	62.20
Nov.	30	49.6	Mar.	14, 1963	58.21	May	24	62.29
Feb.	24, 1954	a53.63	Oct.	31	58.34	June	29	62.07
Nov.	10	52.96	Jan.	6, 1964	60.12	Aug.	2	c62.77
Nov.	10	a53.64	Feb.	5	60.55	Aug.	3	62.94
Mar.	7, 1955	52.38	Mar.	9	60.35	Sept.	7	62.96
Nov.	29	56.21	Mar.	30	59.32	Oct.	4	63.02
Mar.	26, 1956	c52.39	Apr.	3	60.61	Oct.	25	62.94
Nov.	16	c53.53	May	8	61.09	Nov.	5	63.00
Mar.	14, 1957	c52.49	June	3	61.55	Dec.	10	62.54
Nov.	27	53.45	July	7	61.50	Jan.	10, 1966	62.38
Mar.	13, 1958	53.30	Aug.	5	61.86	Feb.	1	62.50
Nov.	4	55.76	Sept.	11	62.42	Mar.	3	61.86
Mar.	12, 1959	54.91	Sept.	30	62.50	Mar.	10	62.62
Nov.	24	55.49	Nov.	9	62.32	Apr.	9	62.95
Feb.	27, 1960	55.54	Dec.	1	62.04	May	3	63.12
Nov.	22	56.56	Jan.	6, 1965	61.76	June	2	63.28
Mar.	8, 1961	56.29	Feb.	1	61.72	July	6	62.89
Oct.	26	57.30	Mar.	3	61.70	Aug.	1	63.04

11S/7E-7N1. Depth 140 ft in 1936, 82.4 ft on November 20, 19[illegible], and 34.7 ft on March 4, 1966. Altitude about 475 ft. All measurements by U.S. Geological Survey.

Nov.	20, 1945	28.4	Mar.	15, 1958	31.53	Mar.	15, 1962	33.84
Feb.	24, 1954	28.31	Nov.	4	32.82	Nov.	2	34.74
Nov.	8	29.62	Mar.	12, 1959	32.15	Mar.	15, 1963	34.47
Mar.	7, 1955	29.05	Nov.	24	33.51	Mar.	20, 1964	34.75
Nov.	29	30.23	Feb.	28, 1960	33.08	Nov.	13	38.36
Mar.	18, 1956	29.89	Nov.	22	33.40	Mar.	19, 1965	38.58
Nov.	16	30.70	Mar.	8, 1961	33.19	Oct.	25	36.09
Mar.	14, 1957	31.48	Oct.	26	34.16	Mar.	4, 1966	(f)
Nov.	27	31.78						

Date	Water level	Date	Water level	Date	Water level

11S/7E-20P1. Depth 363 ft in May 1951, and 361 ft on February 1, 1954. Altitude about 595 ft. All measurements by U.S. Geological Survey.

Feb. 18, 1953	72.10	Nov. 27, 1957	71.78	Nov. 1, 1962	70.38
Dec. 9	a79	Nov. 4, 1958	71.79	Mar. 14, 1963	70.29
Feb. 23, 1954	73.08	Mar. 12, 1959	71.16	Oct. 31	70.24
Feb. 24	72.83	Nov. 24	70.94	Mar. 20, 1964	70.02
Nov. 8	a81.65	Feb. 28, 1960	70.78	Nov. 13	70.63
Mar. 7, 1955	a79.72	Nov. 23	70.66	Mar. 19, 1965	70.97
Nov. 29	a82.64	Mar. 8, 1961	70.56	July 28	70.69
Mar. 18, 1956	74.82	Oct. 26	70.42	Oct. 25	70.74
Nov. 16	73.79	Mar. 15, 1962	70.35	Mar. 4, 1966	71.67
Mar. 15, 1957	72.72				

11S/7E-32Q1. Depth 463 ft on November 2, 1952, and 418.7 ft on July 29, 1965. Altitude about 700 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 2, 1952	s195	Dec. 10, 1953	a s268	July 29, 1965	192.23
Dec. 10, 1953	s188	Nov. 10, 1954	188.1		

12S/4E-24K1. Depth 90 ft in 1919, 95.8 ft on November 24, 1953, and 56.8 ft on September 6, 1965. Altitude about 2,440 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	18.43	Mar. 8, 1961	30.35	Mar. 20, 1964	32.22
Mar. 19, 1956	23.30	Oct. 27	a32.34	Nov. 12	a36.63
Mar. 14, 1957	24.40	Mar. 16, 1962	31.40	Mar. 19, 1965	32.27
Nov. 4, 1958	27.71	Nov. 2	32.70	Sept. 6	36.11
Mar. 12, 1959	27.74	Mar. 15, 1963	32.59	Oct. 25	36.29
Nov. 24,	29.29	Oct. 31	32.36	Mar. 3, 1966	a33.45
Nov. 22, 1960	30.56				

12S/5E-34J1. Depth reported to be about 74 ft. Altitude about 2,280 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	57.3	Nov. 22, 1960	60.22	Oct. 31, 1963	61.61
Mar. 15, 1958	58.32	Mar. 8, 1961	60.28	Mar. 20, 1964	61.74
Nov. 5	q54.43	Oct. 27	60.68	Mar. 19, 1965	64.38
Mar. 12, 1959	q58.71	Mar. 16, 1962	61.00	Aug. 24	63.11
Nov. 24	q65	Nov. 2	61.35	Mar. 3, 1966	62.52
Feb. 27, 1960	b61.85	Mar. 15, 1963	61.49		

Date	Water level	Date	Water level	Date	Water level

12S/5E-34J2. Depth reported to be 213 ft when drilled, 88.0 ft on November 24, 1953, and 53.5 ft on August 19, 1965. Altitude about 2,270 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	51.83	Mar. 19, 1956	53.85	Mar. 16, 1958	53.52
Nov. 11, 1954	52.92	Mar. 14, 1957	53.13	Aug. 19, 1965	(f)
Mar. 7, 1955	52.98				

12S/8E-6P1. Depth 314 ft in May 1952, and 293.0 ft on December 10, 1953. Altitude about 410 ft. All measurements by U.S. Geological Survey except as indicated.

May 10, 1952	s189	Feb. 24, 1954	179.96	Mar. 6, 1955	180.25
Dec. 10, 1953	179.8	Nov. 10, 1954	179.98	Aug. 17, 1965	194.36

12S/8E-22E1. Depth 226 ft in 1929. Altitude about 110 ft. All measurements by U.S. Geological Survey.

Dec. 15, 1953	101.93	Mar. 15, 1958	102.02	Nov. 1, 1962	112.49
Feb. 24, 1954	102.19	Nov. 4	105.61	Mar. 14, 1963	113.28
Nov. 10	101.83	Mar. 12, 1959	105.86	Oct. 31	113.84
Mar. 6, 1955	101.89	Nov. 24	108.56	Mar. 20, 1964	113.92
Nov. 29	101.89	Feb. 28, 1960	c108.60	Nov. 13	109.92
Mar. 18, 1956	102.17	Nov. 23, 1960	108.82	Mar. 19, 1965	110.95
Nov. 16	101.92	Mar. 9, 1961	109.39	Aug. 18, 1965	109.36
Mar. 15, 1957	101.87	Oct. 26	110.13	Oct. 25	109.25
Nov. 27	101.94	Mar. 15, 1962	c110.52	Mar. 4, 1966	110.04

12S/9E-22A2. Depth 667 ft in May 1962. Altitude about -10 ft. All measurements by U.S. Geological Survey except as indicated.

May 1962	s85	Aug. 2, 1963	a105.81	Mar. 20, 1964	101.4
Mar. 14, 1963	a101.7	Oct. 31	104.9	Mar. 19, 1965	95.3

Date	Water level	Date	Water level	Date	Water level

12S/9E-23D1. Depth 445 ft. Altitude about -15 ft. All measurements by U.S. Geological Survey.

Dec. 15, 1953	64.17	Nov. 27, 1957	70.18	Mar. 14, 1963	a142.55
Feb. 24, 1954	65.79	Mar. 15, 1958	66.76	Oct. 31	a142.88
Nov. 10, 1954	64.56	Nov. 4	72.48	Mar. 20, 1964	87.87
Mar. 6, 1955	a129.0	Mar. 9, 1961	b79.08	Mar. 19, 1965	95.4
Nov. 29	64.87	Oct. 26	a134.71	Aug. 12	c110.05
Mar. 18, 1956	64.43	Mar. 15, 1962	a135.61	Oct. 25	c108.26
Nov. 16	a133.52	Nov. 1	a141.08	Mar. 4, 1966	c109.27
Mar. 15, 1957	65.00				

14S/5E-2G1. Depth 104 ft on November 25, 1953. Well redrilled, depth 172.3 ft on August 27, 1965. Altitude about 2,060 ft. Measurements by U.S. Geological Survey.

Nov. 25, 1953	70.64	Nov. 5, 1958	77.92	Mar. 20, 1964	82.64
Mar. 18, 1956	74.01	Nov. 23, 1960	81.12	Aug. 27, 1965	86.27
Mar. 14, 1957	75.39	Mar. 16, 1962	81.70	Mar. 3, 1966	86.63

14S/6E-8F3. Depth 109.0 ft. on September 1, 1965. Altitude about 1,645 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 22, 1960	s72.6	Mar. 20, 1964	66.05	Mar. 3, 1966	69.22
Mar. 16, 1962	65.31	Sept. 1, 1965	68.68		

14S/6E-16F1. Depth 61.8 ft on January 5, 1954. Altitude about 1,620 ft. All measurements by U.S. Geological Survey.

Jan. 5, 1954	21.15	Mar. 18, 1956	22.32	Nov. 5, 1958	25.36
Nov. 11	22.23	Mar. 14, 1957	22.94	Sept. 2, 1965	30.29

15S/8E-17C1. Depth 127 ft. Altitude about 610 ft. All measurements by U.S. Geological Survey.

Dec. 14, 1953	52.49	Mar. 16, 1958	58.59	Mar. 20, 1964	61.44
Nov. 11, 1954	51.71	Nov. 5	57.48	Mar. 3, 1966	63.89
Mar. 18, 1956	54.52	Nov. 23, 1960	60.7	May 5, 1966	64.02
Mar. 14, 1957	58.67	Mar. 16, 1962	60.42		

APPENDIX C

TABLE 3. CHEMICAL ANALYSES OF WATER FROM WELLS AND SPRINGS

Table [illegible].--Chemical analyses of water from wells and springs

[All values have been rounded to conform to Geological Survey standards]

Date of collection: The letter a preceding the date indicates the date the sample was analyzed, rather than the date it was collected.

Calcium: Values preceded by the letter b indicate a combination of calcium and magnesium.

Sodium: Values preceded by the letter d indicate a combination of sodium and potassium.

Sulfate: Values preceded by the letter g were calculated by difference by the Geological Survey.

Analyzing laboratory and sample number: B Babcock and Sons; C Clarkston Laboratory; Cu Culligan, Inc.; DA U.S. Department of Agriculture; DWR California Department of Water Resources; GS U.S. Geological Survey; H Hornkohl Laboratories, Inc.; J James Laboratory; JSB Brown (1983); SD San Diego Testing Laboratory; T Thomas Laboratory; TE Testing Engineers, Inc.; UC University of California, Extension Service; W U.S. Department of Agriculture, Soil Conservation Service.

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)																			Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	
U.S. Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45		500	500					
08/[illegible]E-5D81	[illegible]-14-54					165	68	152	15	267	0	638	120	0.4	0	0.29	1,290	1,340			38	1,841	7.8	DWR P583
22K31	[illegible]-14-54					30	8.6	28	3.6	129		38	18	.5	2.5	0	193	265	110		34	334	8.2	DWR P538
08/6E-6NS1	a1-25-55					8[illegible]	31	240	[illegible]	89	0	760	16	1.0	3.0	.12	1,190	1,040	345		6[illegible]	1,640	7.3	DWR 5228
08/7E-18N3	[illegible]-15-57	[illegible]1	79	15		18	3	163	9	116	0	170	95	2.5	4.3	.01	535	560	[illegible]7		84	880	[illegible].6	DWR T371
08/7E-1D[illegible]1	1-[illegible]-59			2[illegible]		473	80	11	12	166	0	1,270	83	1.0	0	0	2,030	1,990	1,510		2	2,700	7.4	DWR T4227
08/7E-[illegible]R1	[illegible]-4-54					5[illegible]	16	45	5.4	181	4	103	32	.3	3.2	.14	355	411	208		31	532	8.6	DWR R284
	[illegible]-10-62			[illegible]		5[illegible]	17	41	5.5	181	0	96	33	.2	0	.06	367	384	195	50	31	565	[illegible].9	DWR 2755
6A1	1-13-[illegible]	350	2			49	17	42	4.3	170	0	95	35	.4	8.4	.04	335	350	192		32	541	7.3	DWR 2712
	3-6-[illegible]7		4	1[illegible]		70	6	46	6.0	179	0	105	33	.2	0	.02	394	410	200		33	586	7.5	DWR 7722
	[illegible]-4-[illegible]8		77							178	0		36						199			596	7.9	DWR T2313
10S/6E-[illegible]F1	1-13-[illegible]	702	2			109	18	90	9.9	229	0	282	65	1.0	5.4	.12	693	723	346		35	[illegible]8	7.5	DWR 2717
	7-2-[illegible]0		78	2[illegible]		101	19	104	11	180	0	295	73	.7	3.9	.15	725	709	330		40	1,110	[illegible].0	DWR T2431
	[illegible]-[illegible]-62		76	2[illegible]		105	19	103	9.5	200	0	301	65	.8	3.1	.26	732	760	340	178	39	1,050	7.8	DWR 2754
8A1	11-17-[illegible]	62[illegible]				125	10	d125		145	Trace	340	107			.05	778	673	353		45	1,210	8.5	
9N1	a1[illegible]-51	36[illegible]				104	5	d110		190		270	65			.20	648		280		50	1,010	7.7	UC-87[illegible]
1[illegible]1	a4-28-[illegible]	12			.1	176	4.9	d61		184	0	294	96		34	.05	751	725	460		22	1,770	7.6	H 64818
	7-[illegible]-62					88[illegible]	94	7.4		176	0	576	138		213		1,400		1,100		1	2,100	7.4	
[illegible]D1	a4-[illegible]-[illegible]	[illegible]0			.[illegible]	1[illegible]9	[illegible].7	d46		170	[illegible]	273	95		21	.1[illegible]	705	610	462		18	1,[illegible]60	7.7	H 648[illegible]
	[illegible]-7-62						178	186	11	178	0	572	147		249		1,430		444		35	2,200	7.[illegible]	
16N1	a4-[illegible]-58	197			.[illegible]	[illegible]0	4.9	d38		165	0	282	126		20	.01	754	673	524		14	2,120	7.4	H 648[illegible]
	7-[illegible]-62						135	189	13	173	0	528	121		148		1,[illegible]0		556		42	1,800	7.6	
N1	a4-[illegible]-[illegible]				.[illegible]	1[illegible]3	1.2	d[illegible]6		212	[illegible]	3[illegible]9	119		26	.10	694	670	35[illegible]		37	1,620	7.3	H 64819
	[illegible]-[illegible]-[illegible]				.1	1[illegible]	15	1[illegible]7		193	[illegible]	367	84		13	.05	841	840	374		44	1,150	8.3	
	1-[illegible]-[illegible]	6[illegible]				[illegible]6	[illegible]1	17[illegible]	16	107		[illegible]7[illegible]	135	.5	90	.20	1,530	1,750	775		32	2,[illegible]0	7.9	DWR

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
U.S. Public Health Service drinking-water standards (1962)					0.3							250	250		45		500	500						
[illegible]																	

| Well number | Date of collection | Depth of well (feet) | Water temperature (^{0}F) | Results in parts per million (ppm) | | |

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)														Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$				
U S Public Health Service drinking water standards (1962)					0.3							250	250	0.9	45		500	500						
[illegible]	[illegible]	[illegible]	[illegible]			66	[illegible]	135	8.2	85	0	331	75	0.6	0	0.24	667	696	206		60	946	7.9	DWR 2864
[illegible]	[illegible]	[illegible]				[illegible]		d140		105	0	320	[illegible]			.28	662	663	208		[illegible]	1,010	7.4	UC 8819
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		91	21	73	2.0	187	0	121	141	.4	5.5	.04	601	635	324		32	868	7.7	DWR 8497
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		110	44	141	4.6	199	0	296	169	.3	0	.20	1,210	1,280	706		50	1,920	7.6	DWR T2470
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	84	182	5.5	155	0	406	234	.4	2	.24	1,110	1,130	470	344	45	1,620	7.8	DWR L275
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	96	167	11	188	0	337	147	.2	5.3	.09	915	942	348	193	50	1,320	7.9	DWR 2734
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		69	13	63	4.4	152	0	114	66	.2	16	.10	412	480	203		33	712	7.7	DWR P828
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		104	19	82	4.8	159	0	158	148	.4	33	.12	627	680	338		34	976	7.6	DWR 5589
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		242	71	511	11	348	0	10	392	.2	8.6	.95	1,440	2,380	896		55	3,530	7.6	DWR T1687
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		204	76	490	12	329	0	1,060	445	.2	63	.46	2,630	2,690	1,050		49	3,910	7.4	DWR T367
[illegible]	[illegible]	[illegible]	62	[illegible]		[illegible]	[illegible]	[illegible]	2.5	68	10	g61	60		.1		265		26	0	87	483	9.1	GS 10198
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		42	9	76	4.3	134	0	122	56	.7	5.4	.04	381	392	142		53	584	7.6	DWR 2713
[illegible]	[illegible]	[illegible]	76	[illegible]		128	22	220	8.1	156	0	g382	270		3.9		1,120		410	282	54	1,550	7.7	GS10211
[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		75		125	35			.12	302		70			500	6.8	DWR
[illegible]	[illegible]	68		[illegible]		47	4	93	2.5	54	10	121	32	1.0	5.0	.04	300	291	59		74	442	8.2	DWR 2716
[illegible]	[illegible]	78		43	0.38	47	[illegible]	d64		131	0	137	31		Trace		396	399	155					JSB-7
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		46	[illegible]	[illegible]	3.4	100	0	g102	41		1.1		301		79	0	66	521	8.0	GS 10203
[illegible]	[illegible]	[illegible]	78	[illegible]		25	4	64	[illegible]	78	0	103	57		5.5	.04	280	300	79		63	432	8.0	DWR 5590
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		34	8	72	4.5	127	0	54	70	.6	4.5	.06	305	328	103		61	549	7.9	DWR 2867
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		141	0	518	206				1,320	1,240	282		70			
[illegible]	[illegible]	368	[illegible]	[illegible]		[illegible]	[illegible]	242	8	111		625	457				1,670		844		38			GS
[illegible]	[illegible]	368	[illegible]	[illegible]		132	[illegible]	225	9.6	108	0	g576	250		5.4		1,340		565	476	46	2,100	7.8	GS 10210
[illegible]	[illegible]	368	82	[illegible]		119	41	265	17	110	0	684	288	.2	1.9		1,540	1,570	647		46	2,290	7.8	DWR T1689
[illegible]	[illegible]	146	76	[illegible]		22	[illegible]	110	[illegible]	88	0	100	88	0	10		381	413	63		80	676	7.7	DWR 2865
[illegible]	[illegible]	68	80	[illegible]		14	.6	89	4.6	52	0	g82	62		29		308		40	0	81	550	8.2	GS 10204
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		44	[illegible]	[illegible]					302	9.8				1,200	130		87		7.9	C
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		56	[illegible]	60	[illegible]	228	0	g81	44		2.0		372		202	14	39	662	7.9	GS 10197
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		108	[illegible]	d189		189		400	181		2.5	.27	1,000	1,060	397		51	1,490	8.4	DWR 2412
[illegible]	[illegible]	[illegible]	[illegible]	48	.13	26	115	d754		282	0	1,460	832		3.2		3,680	3,750	1,290					JSB-53

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)																Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$			
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.7	45		500	500					
12S/6E-17C1	3-17-53		77			363	95	310	16	227	0	1,060	310	0.8	2.0	0.1	2,160	2,300	1,010		40	2,940	7.3	DWR [illegible]
	11-20-53					266	87	313	18	223	0	1,040	301	.7	2.1	.11	2,140	2,190	1,020		39	2,990	7.6	DWR R[illegible]
	1- 8-54		79			260	83	320	17	216	0	g1,060	300		1.9		2,150		991	813	41	3,000	7.4	GS 10[illegible]
	4-15-54		72			276	85	299	18	227	0	1,060	286	.8	2.0	.1	2,180	2,280	1,040		40	2,940	7.4	DWR 4180
	8-17-54					276	85	299	18	208	0	1,120	291	.6	5.6	.10	2,200	2,460	1,040		37	3,040	7.4	DWR P839
	12-21-54		73			276	93	338	19	213		1,190	298	.8	11	.13	2,330	2,380	1,070		40	2,970	7.2	DWR R524
	5- 5-57		78	30		281	89	300	17	211	0	1,100	302	.4	3.0	.10	2,230	2,400	1,070		37	2,700	7.3	DWR 7711
	5-28-63		27			297	80	298	298	216	0	1,120	275	.6	0	.17	2,300	2,500	1,071	891	37	2,850	7.5	DWR L3446
17C2	8-26-53		64			294	87	400	17	186	0	1,110	460	.6	10	.24	2,450	2,530	1,090		44	3,230	7.3	DWR 2872
	a1-13-54					328	102	334	18	238		1,160	418	.6	1.1	.04	2,480	2,680	1,240		37	3,440	7.6	DWR R51
	8-17-54					312	90	368	16	262	0	1,170	412	.2	1.2	.12	2,500	2,810	1,15[illegible]		40	3,[illegible]00	[illegible]	DWR P829
	5- 5-57			30		274	84	360	15	276	0	1,020	374	.4	1.0	.12	2,230	2,400	1,030		43	2,900	7.4	DWR 7716
18A1				50	0.14	197	116	382				1,050		1.1	1.2		1,800	2,380				3,670	7.2	C
18B1	8-17-53		68			277	72	356	18	171	0	1,020	250	.6	2.0	.02	1,970	2,080	990		35	2,680	7.2	DWR 2941
	4-13-54		71			283	72	350	17	171	0	1,020	255	.7	0	.04	1,980	2,070	1,000		35	2,670	7.4	DWR 417[illegible]
	5- 5-57		71	30		284	76	348	18	169	0	1,060	249	.2	1.0	.10	2,090	2,190	1,020		34	2,880	7.3	DWR 7717
12S/8E- 6P1	1- 8-54	293	93			16	1.6	109	4.1	102	0	g40	116		.2		357		47	0	82	6[illegible]	7.8	GS 10208
8K1	1- 8-54		89			20	3.[illegible]	112	3.5	118	0	g62	106		.5		365		64	0	78	692	7.9	GS 10209
8Q1	1-24-49	120.0				130	21	366		122	Trace	596	348			.30	1,520		411			2,440		W-2
8R1	a9-21-59	250		26	.10	10	2	137				96	128	5	.5		405	466	3[illegible]		90	717	7.[illegible]	C-W1447
10E2	3- 8-60		70	31		67	7	448	9.4	113	0	565	340	4.8	1.4	1.2	1,530	1,[illegible]10	196		5[illegible]	2,460	7.8	DWR R31[illegible]
1 N1	4- 1-72	222	94			19	2	220	4.7	93	0	178	185	8.0	1	0	663	702	56	0	89	1,020	8.1	DWR 1971
	1- 8-54		97			20	1.8	232	3.8	78	0	g232	185		.1		71[illegible]		57	0	89	1,21[illegible]	8.[illegible]	GS 10208
	4- 8-60		72	38		50	[illegible]	184	5.1	101	0	452	289	5.3	1.[illegible]	1.1	1,270	1,260	154		88	1,97[illegible]	7.7	DWR R30[illegible]
15E1	1-14-49	140.0																				820		W-[illegible]
15K1	8-15-64					62		464					330						254			2,650		DA
16R1	a6-[illegible]-53	1[illegible]5	67			12	18					85	113	2.2	.2		330	456	104				.7	TE SD18-11 83M
[illegible]E1	1- 8-54	226				16	1.8	17[illegible]	[illegible].4	[illegible]	[illegible]	g145	147		.3		538		41	[illegible]	84	936	[illegible].	GS 1[illegible]06
	4- 2-60			18		18	1	186	3.5	146	[illegible]	117	145	5.3	3.1	.27	567	498	49		88	8[illegible]	8.[illegible]	DWR R3[illegible]20
2 K1	1- -63				.[illegible]	14	[illegible]	167				14[illegible]	146	5.5	.6	.40	4[illegible]6	432	4[illegible]		[illegible]9		[illegible].[illegible]	SD
24F1	a8- -63				.01	62	[illegible]	85				308	217	5.5	0.7	.60	66[illegible]	905	[illegible]		66		8.[illegible]	SD
4Q1	1- 8-54	22[illegible]	[illegible]4			[illegible]	14	85	10	76	[illegible]	g5[illegible]0	335		.6		2,4[illegible]		90	0	[illegible]	[illegible],[illegible]30	[illegible].	GS 10[illegible]
	a8- -63					87	17	361				548	423	2.[illegible]	.2	1.1	[illegible],340	1,4[illegible]0	2[illegible]4		[illegible]3		.9	SD
26Q1	1-24-49	102.5																				1,2[illegible]0		W-[illegible]
27F1	1-24-49	105				79	16	62		195	Trace	103	72			.[illegible]2	449		26[illegible]			[illegible]40		W-[illegible]
[illegible]/8E-2[illegible]D1	a-[illegible]-59					18[illegible]	[illegible]7	[illegible]10		[illegible]6	[illegible]	41[illegible]	724				4,840	1,[illegible]40	6[illegible]0		6[illegible]	[illegible],2[illegible]	[illegible].[illegible]	T Y[illegible]7
37B1	1- 8-54					[illegible]7	42	[illegible]2[illegible]		116	0	45[illegible]	71[illegible]			0	[illegible],340		[illegible]			[illegible],[illegible]00		W-[illegible]

Well number	Date of collection	Depth of well (feet)	Water temperature °F	Results in parts per million (ppm)																												Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	
U S Public Health Service drinking water standards: 1962					0.3							250	250	1.4	45		500	500														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

APPENDIX D

TABLE 4. DRILLERS' LOGS OF WELLS

Table 4.--Drillers' logs of wells

Where the depth given in the log table differs from that given in table 1, it indicates the well has been measured since it was drilled. The depth given in table 1 is a measured depth on the date indicated. The depth given in table 4 is the depth reported by the driller and is not necessarily the developed depth of the well.

	Thickness (feet)	Depth (feet)
10S/5E-25R1. 12-inch casing. Altitude about 725 ft.		
Sand and gravel	40	40
Sand, coarse	10	50
Sand, coarse, and boulders	10	60
Silt, sand, and boulders	10	70
Sand, tight, and gravel	10	80
Sand, tight, and boulders	10	90
Sand, silt, and gravel	10	100
Sand and gravel	10	110
Sand, tight and medium	10	120
Sand and gravel	10	130
Sand and clay	10	140
Sand, medium, and clay	10	150
Sand, medium	20	170
Sand and gravel	10	180
Sand and boulders	10	190
Sand and clay	10	200
Sand, gravel, and clay	10	210
Sand	30	240
Sand and "spot" boulders	10	250
Sand	20	270
Sand and "spot" boulders at 272 ft.	10	280
Sand and boulders	10	290
Sand	10	300
Sand and boulders	10	310
Sand, gravel, and clay	10	320
Sand and gravel	10	330
Sand, coarse, and gravel, cemented	10	340
Sand, fine and hard-packed with occasional boulders	10	350
Sand, fine and hard	10	360
Sand, fine and hard-packed	10	370
Sand, fine	10	380
Sand, medium to coarse, and boulders	10	390
Sand, fine, and boulders	10	400
Sand and boulders	10	410
Sand, fine	10	420
Sand, medium-fine, and sand, fine with boulders at 427-429 ft.	10	430
Sand, medium-fine, and shells	10	440
Sand, fine, and shells	30	470
Sand, tight and fine, and shells	35	505

10S/6E-5F1. Drilled by Pacific Coast Drilling Co. 30-inch casing 0-50 ft, 16-inch casing 0-702 ft; perforated 250-700 ft. Altitude about 800 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Sand	10	10	Boulders and sand	24	455
Boulders	35	45	Sand, coarse	10	465
Sand and gravel	30	75	Boulders	15	480
Sand, gravel, and boulders	33	108	Sand, coarse	10	490
Boulders	12	120	Boulders	7	497
Sand, coarse	45	165	Sand, coarse	53	550
Clay, sandy	5	170	Boulders and sand, coarse	23	573
Sand, coarse	34	204	Sand, coarse, and gravel	39	612
Boulders	14	218	Boulders	48	660
Sand, coarse	22	240	Sand and gravel	8	668
Boulders	30	270	Boulders	12	680
Sand, coarse	61	331	Sand, coarse	3	683
Boulders	14	345	Boulders	7	690
Sand	59	404	Sand	5	695
Sand, medium	16	420	Boulders	9	704
Boulders	11	431			

10S/6E-8A1. Drilled by Mann Bros. Drilling Co. 16-inch casing 0-624 ft; perforated 300-624 ft. Altitude about 780 ft.

"Surface"	90	90	Sand, medium to medium-fine	30	348
Sand and rocks, hard	22	112	Sand, medium	22	370
Sand, medium to fine	8	120	Rock	20	390
Sand, medium-coarse, and rock	16	136	Sand, medium	30	420
Sand, medium-fine	16	152	Shale and sand, medium fine	30	450
Sand, fine and hard	11	163	Sand, medium	16	466
Rock	13	176	Shale, hard	12	478
Sand, medium fine, with streaks of rock	27	203	Sand, medium, and rock	8	486
Sand, medium, and conglomerate	23	226	Sand, medium-coarse	56	542
Sand, medium to medium fine	34	260	Shale	8	550
Sand, fine and tight	20	280	Rock	10	560
Sand, medium-coarse, with rocks	38	318	Rock and shale	8	568
			Sand, medium	12	580
			Sand, medium-coarse	20	600
			Gravel	24	624
			Sand, medium-fine		624

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
10S/6E-8P1. Drilled by W. A. Borden. 14-inch casing: perforated 247-259 ft, 320-340 ft, 396-430 ft, 480-500 ft, and 520-620 ft. Altitude about 720 ft.					
Soil	14	14	Sand, hard-packed	9	288
Sand	35	49	Clay, blue	28	316
Clay and silt	2	51	Clay, brown	4	320
Clay and sand	9	60	Gravel, 1½-to 2-inch	20	340
Clay and silt, some rocks	20	80	Clay, brown	8	348
Sand, muddy	14	94	Sand	48	396
Gravel and sand	25	119	Gravel, 1-inch	34	430
Sand, packed	1	120	Sand with a few rocks	40	470
"Quicksand"	71	191	Clay	10	480
Clay	1	192	Gravel, 1½-to 2-inch	20	500
Sand and gravel, fine	38	230	Silt and sand	18	518
Clay, yellow	2	232	Clay, yellow	2	520
Clay, muddy	8	240	Gravel, 1½-to 2-inch	18	538
Clay, yellow	7	247	Gravel, 1½-to 3-inch	48	586
Gravel, 1½- to 2-inch	12	259	Gravel and sand	34	620
Clay, gray, and shale	20	279	Gravel and rocks	28	648
10S/6E-9F1. Drilled by Pacific Coast Drilling Co. 16-inch casing 0-460 ft, 12-inch casing 460-780 ft; perforated 244 to 780 ft. Altitude about 715 ft.					
Sand	80	80	Sand, coarse	45	570
Sand, coarse	40	120	Sand, coarse, with streaks of clay	46	616
Sand, fine	40	160	Sand, coarse	19	635
Gravel and sand, coarse	125	285	Sand, with streaks of clay	15	650
Sand, coarse, with streaks of clay	90	375	Sand, coarse	25	675
Clay, silty	17	392	Sand, with streaks of clay	10	685
Sand, coarse, and gravel	118	510	Sand, coarse, and gravel	90	775
Boulders	5	515	Sand and clay	8	783
Sand and gravel	10	525			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-9N1. Drilled by Roscoe Moss. 16-inch casing; perforated 250-254 ft, 268-272 ft, 408-480 ft, 506-514 ft, and 572-607 ft. Altitude about 715 ft.

Sand	170	170	Sand	18	408
Silt	60	230	Clay and sand with streaks of gravel	42	450
Gravel	10	240	Boulders	30	480
Silt	10	250	Silt	26	506
Gravel	6	256	Sand and gravel, fine	8	514
Silt	12	268	Sand	58	572
Gravel	4	272	Sand and few gravel	35	607
Clay and silt	94	366	Sand	27	634
Gravel	6	372			
Clay and silt	18	390			

10S/6E-10M1. Drilled by Pacific Coast Drilling Co. 16-inch casing 0-498 ft, 12-inch casing 498-762 ft; perforated 272-498 ft and 504-762 ft. Altitude about 700 ft.

Sand, medium, with streaks of clay	194	194	Sand, coarse	89	571
Gravel and boulders	10	204	Sand, coarse, and gravel, with streaks of clay	41	612
Sand, coarse, and gravel, with streaks of clay	122	326	Sand, medium	32	644
Sand, coarse	111	437	Sand, coarse	66	710
Gravel and boulders, with streaks of clay	45	482	Sand, coarse, and gravel	46	756
			Clay, sandy	6	762

10S/6E-14G1. 12-inch casing; perforated 317-392 ft. Altitude about 620 ft.

Surface soil	8	8	Gravel, fine, and sand	6	176
Sand, dry	112	120	Clay, blue	3	179
Clay, yellow	2	122	"Quicksand"	3	182
Gravel	5	127	Gravel, fine, and sand	24	206
Sand with clay streaks	43	170	Sand, fine and muddy	10	216

10S/6E-14G1--Continued

	Thickness (feet)	Depth (feet)
Sand and gravel, fine	4	220
Sand and strips of clay	8	228
"Quicksand" and mud	20	248
Sand, fine and blue	8	256
Clay, black	8	264
Sand, fine and blue, and gravel, fine	6	270
Clay, blue	1	271
Gravel, gray, 3/8 inch	3	274
Sand, fine	12	286
Clay and sand, fine	9	295
Sand, fine, and small rocks	5	300
Clay	10	310
Sand and clay	6	316
Clay	1	317
Boulders	11	328
Gravel, coarse, and sand	12	340
Gravel and rocks	52	392
Clay	2	394
Sand, dirty	26	420

10S/6E-15D1. 16-inch casing. Altitude about 660 ft.

	Thickness (feet)	Depth (feet)
Sand	20	20
Sand, with streaks of clay	68	88
Sand and boulders	16	104
Sandstone, with streaks of clay, and boulders	27	131
Rock	5	136
Sand and boulders	20	156
Clay, sandy	4	160
Sand, with streaks of clay	12	172
Sandstone and sand	27	199
Sand and boulders	44	243
Clay and sandstone	17	260
Sand and boulders	111	371
Sand, with streaks of clay	22	393
Sand and sandstone, packed	53	446
Sand with some boulders	41	487
Sand	45	532
Sand, hard	9	541
Sand and boulders	5	546
Sand	8	554
Sand with small boulders	15	569
Sandstone, sand, and boulders	20	589
Sand, hard, and boulders	11	600
Sand and boulders	10	610
Clay, sandy	5	615
Sand	7	622
Clay, sandy	7	629
Sand, fine	10	639
Clay, sandy	7	646
Sand and boulders	22	668
Clay, sticky	2	670
Sand and boulders	10	680
Sand, fine	5	685
Sand, with streaks of clay	5	690
Sand and boulders	18	708
Clay and boulders, hard	4	712

	Thickness (feet)	Depth (feet)

10S/6E-15D2. 16-inch casing. Altitude about 660 ft.

Surface soil	6	6
Sand and silt	39	45
Sand, hard, and boulders	97	142
Sand and boulders	105	247
Sand	17	264
Sand, fine, with streaks of clay	74	338
Clay	11	349
Sand and boulders	41	390
Clay	18	408
Sand	47	455
Clay	17	472
Sand, fine	14	486
Gravel and boulders, with streaks of clay	14	500
Sand and clay, sandy	75	575
Clay, sandy	32	607
Sand, fine, with streaks of clay	93	700

10S/6E-16N1. 16-inch casing. Altitude about 661 ft.

Surface soil	6	6
Sand and silt	122	128
Sand and boulders	70	198
Clay, sandy	10	208
Sand and boulders	55	263
Clay, sandy	31	294
Sand	41	335
Clay, sandy, with streaks of clay	208	543
Sand	182	725
Clay	5	730
Sand	29	759
Clay	38	797

10S/6E-17C1. Drilled by Claude E. Kelley. 14-inch casing 0-240 ft, 12-inch casing 240-418 ft, and 10-inch casing 418-558 ft. Altitude about 710 ft.

Surface sand and silt	228	228
Gravel	14	242
Sand, fine	12	254
Gravel	9	263
Silt	7	270
Silt and sand, with streaks of clay	35	305
Gravel	12	317
Clay, silty, with streaks of sand	85	402
Sand	10	412
Clay	6	418
Boulders	21	439
Clay	7	446
Boulders	16	462
Clay and silt	16	478
Gravel	12	490
Clay	8	498
Sand	60	558

	Thickness (feet)	Depth (feet)
10S/6E-20A1. 16-inch casing. Altitude about 650 ft.		
Surface soil	10	10
Sand and silt	35	45
Sand, with streaks of clay	78	123
Sand	230	353
Sand, with streaks of clay	12	365
Sand and clay	39	404
Sand and boulders	128	532
Sand, fine	119	651
Clay	17	668
10S/6E-20B1. 16-inch casing. Altitude about 650 ft.		
Sand, with streaks of clay	40	40
Sand, and silt, tight	25	65
Sand and silt, packed	24	89
Clay, sandy, with streaks of sandstone	29	118
Sand, packed	15	133
Sand, packed, and boulders	23	156
Sand, hard and white, and boulders	45	201
Sand, packed, and boulders	20	221
Clay, sandy, hard streaks	13	234
Sand, hard streaks	26	260
Sand, with streaks of clay and silt	30	290
Sand and clay, sandy	26	316
Sand, packed, and boulders	11	327
Sand, hard streaks	7	334
Clay, sticky	12	346
Clay, sandy, with streaks of shale	39	385
Clay, sandy, and boulders	40	425
Sand, with small boulders	13	438
Clay, sandy	7	445
Sand, packed	13	458
Sand, with hard streaks	5	463
Clay, sandy, with hard streaks	20	483
Sand and boulders	10	493
Clay, sandy	42	535
Sand; sand, packed	26	561
Clay, sandy and dry	30	591
Sand, with streaks of clay	19	610
Sand and boulders	8	618
Clay, sandy	8	626
Sand streaks, with clay, hard	6	632
Clay, sandy, with streaks of boulders	6	638
Clay, hard and sandy	11	649
Clay, sandy, and boulders	7	656
Clay	6	662

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
10S/6E-21A1. 12-inch casing. Altitude about 640 ft.					
Sand and silt -------	96	96	Sand, dirty ---------	3	240
Boulders ----------	2	98	Clay, in strips, and sand ----------	6	246
Sand, fine and muddy	33	131	Sand and gravel, fine	6	252
Sand, cemented ------	2	133	Sand, fine ----------	12	264
Gravel and sand -----	8	141	Clay and sand -------	14	278
Sand, dirty, and silt	13	154	Sand and silt -------	2	280
Clay, brown ---------	16	170	Clay, brown ---------	9	289
Silt and sand, fine -	43	213	Clay, yellow --------	2	291
Clay, yellow --------	1	214	Sand ----------	19	310
Sand ----------	18	232			
Clay, yellow --------	5	237			
10S/6E-21B1. 16-inch casing. Altitude about 640 ft.					
Surface sand --------	32	32	Clay, sandy ---------	12	392
Sand, coarse --------	46	78	Sand, gravel, and boulders ----------	17	409
Sand and boulders -----	32	110	Sand and boulders ---	12	421
Sand, coarse --------	21	131	Clay, sandy ---------	9	430
Sand and sandstone, soft ----------	14	145	Clay, hard ----------	11	441
Clay, sandy ---------	35	180	Sand and boulders ---	11	452
Sand, coarse, and boulders ----------	16	196	Sand, with streaks of clay ----------	8	460
Clay, sandy ---------	10	206	Sand and boulders ---	5	465
Sand, sandstone and boulders ----------	24	230	Clay, sandy ---------	10	475
Clay, sandy ---------	4	234	Sand and boulders ---	22	497
Sand and boulders ---	10	244	Clay ----------	17	514
Clay, sandy ---------	5	249	Sand and boulders ---	16	530
Sand and boulders ---	10	259	Clay ----------	9	539
Sand,with streaks of clay ----------	10	269	Sand, fine and hard	7	546
Clay, sandy ---------	4	273	Clay, sandy ---------	23	569
Sand and boulders ---	14	287	Sand ----------	11	580
Clay, sandy ---------	6	293	Sand and clay -------	15	595
Sand and boulders ---	22	315	Sand ----------	7	602
Clay, sandy ---------	4	319	Clay, hard ----------	15	617
Sand, coarse, and boulders ----------	24	343	Clay, sandy ---------	6	623
Sand, coarse --------	13	356	Sand and boulders ---	16	639
Clay, sandy ---------	4	360	Sand, fine ----------	12	651
Sand, coarse --------	20	380	Clay ----------	4	655
			Sand and boulders ---	12	667
			Clay, sticky --------	5	672

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-21B2. Drilled by B and B Drilling Co. 16-inch casing. Altitude about 640 ft.

Sand and silt -------	90	90	Sand, fine, and silt	40	580
Sand, coarse, and silt ----------	60	150	Sand ----------	40	620
Sand, fine, with streaks of silt ---	140	290	Clay and sand, silty ----------	30	650
Sand, with streaks of silt ----------	70	360	Sand, with streaks of silt (very abrasive) --------	60	710
Sand ----------	20	380	Silt and clay, silty, with streaks of sand ----------	140	850
Sand, coarse, and "pea" gravel ------	30	410	Clay, silty --------	17	867
Sand, with streaks of clay and silt	70	480			
Sand ----------	60	540			

10S/6E-21C1. 16-inch casing. Altitude about 640 ft.

Surface sand --------	20	20	Boulders and sand, packed ----------	25	533
Sand, packed --------	60	80	Boulders, with streaks of sandy clay ----------	45	578
Sand and gravel -----	10	90	Boulders and clay --	26	604
Sand, packed --------	50	140	Clay ----------	8	612
Boulders and gravel -	15	155	Boulders and clay, sandy ----------	18	630
Sand, free ----------	46	201	Boulders and clay --	150	780
Sand, with streaks of clay ----------	44	245	Boulders, with streaks of sandy clay ----------	10	790
Sand and gravel -----	42	287	Sand, packed -------	15	805
Sand, packed, with streaks of clay ---	26	313	Clay, sandy, few small boulders ---	75	880
Sand, packed --------	27	340	Sand, packed, and clay, sandy ------	40	920
Clay, sandy, with streaks of boulder-	22	362	Clay ----------	25	945
Boulders, small, sand and clay -----	38	400	Clay, sandy, and sand, packed -----	19	964
Boulders, sandstone, and sand ----------	44	444			
Clay, sandy ---------	22	466			
Sand, packed, and boulders ----------	21	487			
Sand, packed --------	21	508			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-21D1. 16-inch casing. Altitude about 650 ft.

Sand, fine ----------	15	15	Boulders and clay, sandy ----------	31	291
Sand and "hard pan" -	24	39	Sand, packed, and clay ----------	79	370
Sand, packed --------	65	104	Boulders and clay --	27	397
Clay and sand -------	24	128	Boulders and sand --	25	422
Sand, packed, with sandstone ledges --	19	147	Sand, packed, and clay, sandy ------	43	465
Boulders, small, and streaks of fine sand ---------	9	156	Boulders and clay --	24	489
Sand and clay, dry --	59	215	Clay ----------	56	545
Boulders and gravel, small ----------	8	223	Boulders and sand, with streaks of clay ----------	100	645
Sand, packed, and streaks of dry clay ----------	37	260	Clay ----------	3	648

10S/6E-21E1. 16-inch casing. Altitude about 640 ft.

Surface sand --------	4	4	Sand, coarse -------	26	486
Sand ----------	76	80	Sand, coarse, and gravel ----------	64	550
Sand, coarse --------	125	205	Sand, coarse, with streaks of clay --	30	580
Clay, sandy ---------	80	285	Clay ----------	60	640
Sand, coarse, with streaks of clay ---	60	345	Sand, coarse -------	31	671
Sand, coarse, and gravel ----------	7	352	Sand, coarse, and gravel ----------	109	780
Clay, sandy ---------	83	435	Clay and gravel ----	50	830
Sand ----------	19	454	Sand, coarse -------	70	900
Clay ----------	6	460			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-21F1. Drilled by B and B Drilling Co. Altitude about 640 ft.

Sand and clay -------	80	80	Clay, silty, and sand, fine -------	7	355
Sand, with thin streaks of silt ---	43	123	Sand, coarse -------	20	375
Sand and clay, silty-	37	160	Sand, fine, with streaks of clay --	35	410
Silt and clay, with streaks of fine sand ----------	55	215	Sand, coarse, with streaks of fine sand ----------	55	465
Sand, with streaks of hard sand and cobbles ----------	65	280	Sand and clay, silty	40	505
Sand, with streaks of clay ----------	35	315	Sand, coarse, with streaks of clayey sand ----------	26	531
Sand, coarse --------	33	348			

10S/6E-21H1. 16-inch casing. Altitude about 635 ft.

Surface soil --------	10	10	Sand and boulders --	20	514
Sand and silt -------	80	90	Clay, sandy --------	128	642
Sand and boulders ---	133	223	Sand ----------	33	675
Clay, sandy ---------	134	357	Sand, fine ---------	40	715
Sand ----------	55	412	Clay ----------	37	752
Clay, sandy ---------	82	494			

10S/6E-21K1. 14-inch casing 0-150 ft; perforated 115-147 ft. Altitude about 620 ft.

No record ----------	105	105	Sand, coarse -------	40	150
Sand, fine to coarse	5	110	Sand, coarse to fine	9	159

	Thickness (feet)	Depth (feet)
10S/6E-21L1. 16-inch casing. Altitude about 620 ft.		
Surface sand and sand, packed	47	47
Sand, dry, with streaks of clay	8	55
Sand, coarse, with streaks of clay	11	66
Sand, packed, and sandstone	39	105
Sandstone, sandy, with streaks of clay	23	128
Sand, hard and white, and boulders, small	12	140
Sand, coarse, and boulders, small	16	156
Clay, hard and dry, with streaks of sandstone	6	162
Sand, hard and white	8	170
Sand, coarse and hard	8	178
Clay, hard, and boulders, small	4	182
Sand, hard, with streaks of clay	16	198
Clay, sandy, and boulders, with streaks of sandstone	25	223
Sandstone, with streaks of boulder	38	261
Sandstone, with streaks of clay	8	269
Clay, sandy	3	272
Clay, sandy and sandstone	31	303
Sand, hard and white, with streaks of sandy clay	9	312
Clay, hard and sandy	8	320
Sand and sandstone	4	324
Clay, sandy, and boulders	22	346
Sand, hard with rock ledges	4	350
Clay, hard and dry	11	361
Clay, sandy, and boulders	19	380
Sand, packed, and clay, sandy with some boulders	33	413
Sand, packed, and clay, blue	7	420
Sand, coarse, and boulders	4	424
Sand, packed and boulders	12	436
Clay, sandy, and boulders	14	450
Sandstone and clay, hard	10	460
Sand, hard, and clay, sandy	11	471
Clay and sand	21	492
Clay and boulders	26	518
Clay, with sand streaks	15	533
Sand and clay	8	541
Sand, with clay streaks	7	548
Sand	12	560
Gravel, coarse, and sand	15	575
Clay, hard and dry	35	610
Sand and clay	10	620
Sand and boulders	8	628
Clay	3	631
Sand, with clay streaks	9	640
Clay	4	644

	Thickness (feet)	Depth (feet)

10S/6E-21M1. 16-inch casing. Altitude about 634 ft.

Surface sand	20	20
Sand, packed, and "hardpan"	40	60
Silt with sandstone ledges	15	75
Sand, coarse	10	85
Sand, packed, and boulders, small	30	115
Sand, packed, and clay, dry	25	140
Sand, coarse, and boulders	15	155
Sand, packed	25	180
Clay, boulders, and sand	30	210
Sand, packed, and clay, sandy	35	245
Sand, clay, and boulders, small	22	267
Sand, packed, and boulders	27	294
Sand, packed, and clay	17	311
Clay, sandy, with hard streaks	24	335
Clay	16	351
Sandstone and sand, packed	63	414
Clay, sandy	18	432
Clay, sandy, with hard streaks	28	460
Clay, sandy, with streaks of boulder	20	480
Clay, sandy, with streaks of sandstone	35	515
Clay, sandy, with hard streaks	46	561
Clay, sticky	14	575
Clay, sand, and boulders, small	26	601
Sand	8	609
Clay, sandy	9	618
Sand and boulders	22	640
Clay	5	645

10S/6E-21N1. 16-inch casing. Altitude about 625 ft.

Surface sand	20	20
Clay, sandy	70	90
Sand, coarse	66	156
Sand, coarse, and gravel	22	178
Clay, sandy	20	198
Sand, with streaks of clay	32	230
Clay	52	282
Sand, coarse	4	286
Clay, with streaks of sand	59	345
Sand, coarse, with streaks of clay	71	416
Clay	96	512
Sand, coarse	30	542
Clay	10	552
Sand, coarse	18	570
Sand, coarse, with streaks of clay	68	638
Sand, coarse	47	685
Sand, coarse, with streaks of clay	52	737
Clay	14	751
Sand, coarse	31	782
Clay	18	800
Sand, coarse, with streaks of clay	33	833
Clay	32	865
Sand, coarse, and gravel	35	900

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-22A1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 620 ft.

Surface sand, with streaks of clay and fine gravel --	150	150	Sand, rough and hard ----------	109	584
Sand with boulders, rough, hard -------	103	253	Clay ----------	18	602
Clay ----------	14	267	Sand, coarse and hard ----------	153	755
Sand ----------	78	345	Clay ----------	13	768
Clay ----------	12	357	Sand with rough spots ----------	78	846
Sand ----------	103	460	Clay ----------	13	859
Clay ----------	15	475	Sand, rough and hard	53	912

10S/6E-22A2. Drilled by Claude E. Kelley. 14-inch casing 0-260 ft, 12-inch casing 260-692 ft, and 10-inch casing 692-908 ft; perforated 260-908 ft. Altitude about 615 ft.

Surface sand, with streaks of clay and fine gravel --	212	212	Clay ----------	41	501
Clay ----------	8	220	Sand, coarse -------	14	515
Sand ----------	18	238	Clay ----------	13	528
Clay ----------	18	256	Gravel, fine -------	108	636
Sand ----------	31	287	Clay ----------	22	658
Clay ----------	25	312	Sand, coarse, with streaks of clay --	172	830
Sand, with streaks of clay ----------	148	460	Clay ----------	21	851
			Gravel ----------	57	908

10S/6E-22B2. Drilled by Claude E. Kelley. 14-inch casing 0-219 ft, 12-inch casing 219-630 ft, and 10-inch casing 630-750 ft; perforated 219-627 ft and 630-750 ft. Altitude about 620 ft.

Sand, with streaks of clay ----------	254	254	Sand ----------	146	633
Clay ----------	13	267	Clay ----------	22	655
Sand, fine ---------	16	283	Gravel, coarse, with streaks of sand --	36	691
Clay ----------	27	310	Clay ----------	17	708
Sand, with streaks of clay ----------	161	471	Gravel, coarse, with streaks of sand --	42	750
Sand ----------	16	487			

	Thickness (feet)	Depth (feet)

10S/6E-22B4. Drilled by Claude E. Kelley. 14-inch casing 0-219 ft, 12-inch casing 219-603 ft, and 10-inch casing 603-770 ft; perforated 209-603 ft and 605-770 ft. Altitude about 620 ft.

Surface sand, with streaks of clay ---	191	191
Gravel, fine, and sand, coarse ------	42	233
Clay ----------	25	258
Sand, fine and silty ----------	13	271
Sand, with streaks of clay ----------	165	436
Sand and gravel, fine	26	462
Clay ----------	16	478
Sand and gravel, fine	111	589
Clay ----------	19	608
Sand and gravel, fine ----------	19	627
Sand, with streaks of clay ----------	23	650
Sand and gravel, fine ----------	59	709
Clay ----------	19	728
Sand and gravel ----	38	766
Clay ----------	4	770

10S/6E-22D1. Drilled by Pacific Coast Drilling Co. 16-inch casing 0-735 ft; perforated 210-735 ft. Altitude about 615 ft.

Surface soil --------	34	34
Sand, coarse --------	56	90
Sand, medium --------	117	207
Sand, coarse, with streaks of clay ---	68	275
Sand, coarse, and gravel ----------	160	435
Sand, coarse --------	15	450
Sand, fine ----------	25	475
Sand and gravel ----	50	525
Clay ----------	25	550
Clay, with streaks of sand, coarse --	85	635
Sand, coarse -------	13	648
Gravel ----------	9	657
Clay ----------	53	710
Clay, with streaks of sand, coarse --	25	735

10S/6E-23B1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-672 ft, and 10-inch casing 672-908 ft; perforated 264-672 ft and 675-908 ft. Altitude about 600 ft.

Surface sand, with streaks of clay, and gravel, fine -	192	192
Sand, coarse -------	18	210
Clay ----------	26	236
Sand, with streaks of clay ----------	64	300
Clay ----------	17	317
Gravel, fine -------	22	339
Clay ----------	31	370

	Thickness (feet)	Depth (feet)
10S/6E-23B1--Continued		
Sand and gravel, fine	28	398
Clay	18	416
Sand, tight	31	447
Clay	19	466
Sand and boulders	49	515
Clay	23	538
Sand, tight and hard, with streaks of clay	252	790
Gravel with boulders	24	814
Clay	19	833
Boulders	75	908

10S/6E-23C2. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-672 ft, and 10-inch casing 672-888 ft; perforated 267-888 ft. Altitude about 610 ft.

	Thickness (feet)	Depth (feet)
Surface sand, with streaks of clay, and gravel, fine	216	216
Sand, with streaks of clay	109	325
Shale, sandy	55	380
Sand, coarse	16	396
Clay	29	425
Gravel, fine	46	471
Clay	18	489
Sand, coarse	49	538
Clay	29	567
Sand, with streaks of clay	104	671
Gravel, fine	19	690
Clay, with streaks of sand	58	748
Sand, coarse	34	782
Clay, with streaks of sand	63	845
Gravel, fine and rough	43	888

10S/6E-23M1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 600 ft.

	Thickness (feet)	Depth (feet)
Surface sand, with streaks of clay	97	97
Sand, with streaks of gravel, fine	68	165
Clay	13	178
Sand	67	245
Clay	20	265
Sand, with streaks of clay	271	536
Clay	22	558
Sand	138	696
Clay	34	730
Sand, hard and rough	79	809
Clay	22	831
Sand and gravel, fine	81	912

	Thickness (feet)	Depth (feet)
10S/6E-23M2. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 600 ft.		
Surface sand and clay	95	95
Sand and gravel	73	168
Clay	12	180
Sand	63	243
Clay	23	266
Sand, with small streaks of clay	274	540
Clay	20	560
Sand (rough at 670)	145	705
Clay	18	723
Sand and boulders (rough)	82	805
Clay	23	828
Sand and gravel (rough)	84	912
10S/6E-24C1. Drilled by W. A. Borden. 12-inch casing. Altitude about 610 ft.		
Soil and sand	6	6
Sand and gravel, dry	34	40
Sand, mud, and clay	22	62
Clay, yellow, and sand	10	72
Sand and rocks, hard	8	80
Sand, dry	32	112
Conglomerate, hard	2	114
Sand, with some rocks	18	132
"Quicksand" and rocks	8	140
Gravel, with some sand	10	150
Bedrock at bottom		
10S/6E-25G1. 14-inch casing 0-150 ft, 12-inch casing 150-318 ft, and 10-inch casing 318-516 ft; perforated 150-516 ft. Altitude about 565 ft.		
Silt and sand	108	108
Sand and gravel	62	170
Sand with clay streaks	30	200
Sand and gravel	30	230
Clay, silt, and some sand	10	240
Clay and silt	40	280
Sand, fine, and clay	10	290
Clay, silt, and some sand	50	340
Sand, fine	20	360
Silt and sand	35	395
Sand and gravel	85	480
Sand and gravel - some clay and rock	30	510
Sand, clay, and gravel, with a few rocks	10	520

10S/6E-28B1. 16-inch casing. Altitude about 600 ft.

	Thickness (feet)	Depth (feet)
Top soil	12	12
Sand and gravel	15	27
Clay, yellow	9	36
Sand	4	40
Sand and gravel	14	54
Clay, yellow	6	60
Sand and gravel	5	65
Clay, yellow	4	69
Sand with a few boulders	15	84
Clay with sandstone ledges	6	90
Sand with a few boulders	6	96
Clay, sandy with sandstone ledges	4	100
Sand, coarse	12	112
Clay with sand streaks	6	118
Sand, coarse, and boulders	16	134
Clay, sandy	5	139
Sand, coarse, and boulders	16	155
Clay, sandy	7	162
Sand and boulders	23	185
Clay	4	189
Sand and boulders	76	265
Clay	7	272
Sand and boulders	8	280
Clay, yellow	17	297
Sand and boulders	4	301
Clay, yellow	13	314
Sand, fine and hard	29	343
Sand, coarse, and boulders	13	356
Clay, yellow	7	363
Sand, coarse, and boulders	7	370
Sand, fine, and boulders	27	397
Clay, sandy	8	405
Sand, hard and white, and boulders	23	428
Clay, sandy	4	432
Sand, coarse, and boulders	15	447
Clay, brown	10	457
Sand, coarse, and boulders	17	474
Clay	10	484
Sand and boulders	32	516
Clay, sandy	7	523
Sand	8	531
Clay	6	537
Sand and boulders	9	546
Clay	7	553
Sand and boulders	9	562
Clay	6	568
Sand and boulders	26	594
Clay	8	602
Sand	18	620
Clay, sandy	17	637
Sand and boulders	26	663
Clay, sandy	3	666
Sand and boulders	11	677
Clay, sandy	3	680
Sand and boulders	20	700
Clay, sandy	3	703
Sand and boulders	26	729
Clay, sandy	2	731
Sand	20	751
Sand with a few boulders	15	766
Clay	2	768
Sand with a few boulders	6	774
Clay	2	776
Sand and boulders	20	796
Clay, soft and sandy	4	800
Sand and boulders	23	823
Clay, soft and yellow	4	827
Sand and boulders	13	840

	Thickness (feet)	Depth (feet)
10S/6E-28B1--Continued		
Clay, soft and yellow	3	843
Sand and boulders	14	857
Clay, soft and yellow	3	860
Sand and boulders	17	877
Clay, soft and yellow	4	881
Sand and boulders	6	887
Clay, sticky	6	893
Sand and boulders	7	900
Clay, sandy	8	908
Clay, hard and brown	7	915

10S/6E-28D1. 16-inch casing. Altitude about 611 ft.

Surface sand	15	15
Sand, packed	35	50
Sandstone	10	60
Sandstone and clay	16	76
Sandstone, with streaks of clay and sand	8	84
Clay	8	92
Sand, packed with sandstone streaks	43	135
Sand and boulders	14	149
Sandstone, sand, and boulders	15	164
Sand, coarse	15	179
Sand and boulders	8	187
Sand	9	196
Clay, sandy	14	210
Sand and sandstone	12	222
Clay, sandy, and sandstone	39	261
Sand, with streaks of clay	26	287
Clay, sticky, with streaks of sand	8	295
Clay, sticky	5	300
Clay, sandy, with streaks of sand	10	310
Sand, with streaks of clay	4	314
Clay, hard	14	328
Sand and boulders	5	333
Clay, sandy, and sand	6	339
Clay, hard	6	345
Clay, sandy	10	355
Sand and sandstone	6	361
Clay, sandy	19	380
Clay, sandy, with streaks of sand	34	414
Sand	16	430
Clay, sandy	15	445
Sand, with streaks of clay	16	461
Clay, sandy	19	480
Sand and boulders	10	490
Clay, sticky	24	514
Sand, coarse	4	518
Sand, with streaks of clay	10	528
Clay	7	535
Sand	3	538
Clay	6	544
Clay, sticky	6	550
Sand	5	555
Clay, sandy	8	563
Clay, sandy, and boulders	17	580
Clay, sticky, and boulders	20	600

	Thickness (feet)	Depth (feet)

10S/6E-28D1--Continued

Clay, hard and dry, and boulders ------	8	608
Sand and boulders ---	8	616
Clay, sandy ---------	4	620
Sand ---------------	4	624
Clay, sticky -------	4	628
Sand ---------------	8	636
Clay, sticky -------	8	644

10S/6E-29B1. 16-inch casing. Altitude about 650 ft.

Top sand -----------	12	12
Sand, coarse --------	8	20
Sand with a few boulders ----------	5	25
Clay, sandy ---------	12	37
Sand ----------------	13	50
Sand, coarse, and boulders ----------	15	65
Sand and clay -------	10	75
Sandstone -----------	2	77
Sand and boulders ---	8	85
Sand, coarse --------	25	110
Sand and boulders ---	28	138
Clay, sandy ---------	8	146
Sand, with some boulders ----------	34	180
Clay, sandy ---------	10	190
Sand ----------------	15	205
Clay, sandy ---------	7	212
Sand ----------------	13	225
Clay, hard ----------	5	230
Sand, coarse --------	16	246
Clay, soft ----------	11	257
Sand ----------------	8	265
Clay ----------------	5	270
Sand and boulders -----	6	276
Clay ----------------	4	280
Clay, blue ----------	10	290
Sand and sandstone --	28	318
Clay, hard ----------	16	334
Sand, coarse --------	5	339
Clay, sandy, and sandstone ---------	7	346
Clay, sticky -------	5	351
Clay, hard and dry -	12	363
Sand ----------------	15	378
Clay ----------------	6	384
Sand and boulders --	37	421
Clay, soft ---------	5	426
Sand ----------------	10	436
Sand and boulders --	20	456
Clay ----------------	6	462
Sand, boulders, and sandstone --------	39	501
Clay ----------------	13	514
Sand and boulders --	16	530
Clay, hard and sandy ------------	12	542
Sand and boulders, with sandstone ledges ----------	15	557
Clay ----------------	5	562
Sand and boulders --	10	572
Clay ----------------	15	587
Sand, with a few boulders ---------	12	599
Clay, sandy --------	6	605
Sand, coarse -------	8	613
Clay ----------------	6	619
Sand and boulders --	17	636
Clay, sandy --------	6	642
Sand, coarse -------	14	656
Clay, hard and sticky ----------	6	662

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

10S/6E-33D1. Drilled by Pacific Coast Drilling Co. 16-inch casing, 0-500 ft; perforated 100-317 ft, 337-409 ft, and 429-500 ft. Altitude about 576 ft.

Surface soil --------	8	8	Sand and clay ------	37	431
Sand ----------	40	48	Sand, with streaks of clay ----------	49	480
Clay ----------	3	51	Sand, packed -------	17	497
Sand, with streaks of clay ----------	316	367	Clay ----------	3	500
Sand and boulders ---	27	394			

10S/6E-34F1. Drilled by Claude E. Kelley. 14-, 12-, and 10-inch casing; perforated 123-438 ft. Altitude about 550 ft.

"Surface" ----------	60	60	Gravel, coarse -----	16	259
Gravel ----------	30	90	Clay ----------	24	283
Clay ----------	30	120	Sand ----------	23	306
Gravel, fine and sand, coarse -------	3	123	Clay, sticky -------	12	318
Clay ----------	41	164	Gravel, coarse -----	16	334
Sand, coarse --------	8	172	Clay ----------	13	347
Clay ----------	8	180	Sand, coarse -------	21	368
Gravel ----------	6	186	Clay ----------	19	387
Clay ----------	22	208	Gravel ----------	15	402
Gravel, fine --------	6	214	Clay ----------	12	414
Clay ----------	29	243	Gravel ----------	22	436
			Clay ----------	2	438

10S/6E-34H1. Drilled by Claude E. Kelley. 14-inch casing 0-120 ft, 12-inch casing 120-264 ft, and 10-inch casing 264-465 ft; perforated 123-462 ft. Altitude about 530 ft.

Surface sand and gravel ----------	121	121	Clay ----------	25	367
Clay, with streaks of gravel and sand ---	93	214	Clay, sandy --------	22	389
Clay, with small streaks of coarse sand and fine gravel ----------	82	296	Clay ----------	8	397
Gravel ----------	46	342	Gravel ----------	17	414
			Clay ----------	20	434
			Clay, with streaks of gravel --------	22	456
			Clay ----------	9	465

	Thickness (feet)	Depth (feet)
10S/6E-36Q1. Drilled by W.A. Borden. 10-inch casing. Altitude about 525 ft.		
Surface soil	9	9
Sand and clay	5	14
Clay	6	20
"Quicksand"	22	42
Clay and sand, sloppy first water at 42 ft	26	68
Clay, hard and yellow	3	71
Sand, fine	18	89
Clay, soft	10	99
Clay, yellow	5	104
Clay, gray	4	108
"Quicksand," blue	8	116
Clay, yellow	2	118
"Quicksand," sloppy and blue	54	172
Clay, gray	4	176
"Quicksand," blue	5	181
Clay, tough and blue	22	203
"Quicksand," fine and blue	98	301
Shale, broken and clay	11	312
Clay, brown	12	324
Gravel, ¼-inch to 2½-inch, with very little sand	32	356
10S/7E-30F1. Drilled by Claude E. Kelley. 14-inch casing 0-146 ft, 12-inch casing 146-216 ft, and 10-inch casing 216-560 ft; perforated 146-560 ft. Altitude about 610 ft.		
Surface sand and clay	143	143
Gravel	25	168
Clay, with streaks of soft sand	36	204
Gravel	16	220
Clay	22	242
Gravel and boulders	20	262
Clay	27	289
Gravel	13	302
Clay	15	317
Sand, coarse	11	328
Clay, with streaks of soft sand	34	362
Gravel	11	373
Clay, with streaks of sand	45	418
Gravel	10	428
Sand, coarse	70	498
Gravel	18	516
Clay, sandy	12	528
Gravel, coarse	32	560

11S/6E-1C1. Drilled by Mann Bros. Drilling Co. 14-inch casing 0-420 ft; perforated 123-420 ft. Altitude about 520 ft.

	Thickness (feet)	Depth (feet)
"Surface"	56	56
Sand, medium-fine and fine	46	102
Sand, tight and fine	18	120
Sand, medium and fine	18	138
Sand, medium	26	164
"Quicksand," medium and fine	26	190
Clay	28	218
Sand, medium and fine	12	230
Sand, medium and medium-coarse	24	254
Sand, fine, with streaks of clay	16	270
Clay and sand, fine	20	290
Clay, sticky	22	312
Sand, medium and medium-coarse	38	350
Sand, medium and fine	20	370
Sand, medium and medium-coarse	10	380
Sand, medium-coarse with rock	45	425

11S/6E-2C3. 16-inch casing 0-390 ft and 7-inch casing 390-660 ft; perforated at 70, 396, 420, 486, and 493 ft. Altitude about 520 ft.

	Thickness (feet)	Depth (feet)
Surface soil	63	63
Gravel	7	70
Clay, soft and yellow	72	142
Clay, hard and yellow	38	180
Clay, hard and brown, with graphite	45	225
Sand and clay	15	240
Clay, brown	27	267
Clay	68	335
Sand and clay	35	370
Clay	16	386
Sand, with gravel	4	390
Clay	26	416
Gravel	4	420
Clay	45	465
Sand, coarse	21	486
Gravel	7	493
Gravel, hard-packed	21	514
Shale, blue	98	612
Clay with gravel	48	660

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

11S/6E-3C1. Drilled by Mann Bros. Drilling Co. 14-inch casing 0-420 ft; perforated 120-420 ft. Altitude about 525 ft.

Surface silt and sand with clay	85	85	Sand, medium-fine and medium	62	266
Sand, medium-fine	29	114	Sand, medium-coarse and medium	12	278
Clay	4	118	Sand, medium	12	290
Sand, medium and medium-fine	16	134	Silt, fine	15	305
Sand, medium	19	153	Sand, fine and loose	15	320
Clay and sand, fine	5	158	Sand, medium-fine	40	360
Sand, medium-coarse and medium	7	165	Sand, medium and medium-coarse	20	380
Sand, medium and medium-fine	15	180	Clay and sand, fine	6	386
Sand, medium	13	193	Sand, medium and medium-coarse	59	445
Sand, fine, with streaks of clay	11	204			

11S/6E-3M1. Drilled by W. A. Borden. 10-inch casing; perforated 89-97 ft. Altitude about 520 ft.

Soil and silt	8	8	Sand, yellow and packed	19	71
Sand	4	12	Clay and sand mixed with cemented shale	7	78
Sand and clay	15	27	Clay, yellow	2	80
Clay, soft and yellow	1	28	Shale and sand	9	89
Shale, cemented	1	29	Sand and gravel, fine	8	97
Gravel, fine, and sand	12	41	Sand and clay, hard	8	105
Sand, hard	6	47	Clay, hard and yellow, and sand	2	107
Clay, yellow	5	52			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

11S/6E-3M3. Drilled by W. A. Borden. 10-inch casing; perforated 31-42 ft and 69-75 ft. Altitude about 520 ft.

Soil	7	7	Clay, yellow	27	69
Sand	3	10	Sand	6	75
Clay	5	15	Clay	9	84
Sand	14	29	Sand	3	87
Sand, sloppy	2	31	Clay, very tough and gray	18	105
Sand	7	38			
Gravel, fine, and shale	4	42			

11S/6E-3N2. Drilled by W. A. Borden. 10-inch casing. Altitude about 518 ft.

Soil	7	7	Clay, sloppy	15	60
Sand, dry	13	20	Clay and sand	15	75
Clay and sand	12	32	Sand, hard	12	87
Clay and shale	3	35	Clay and sand	23	110
Clay and sand	2	37	Sand and shale	4	114
Sand and clay, fine -	8	45	Clay, hard and yellow	6	120

11S/6E-3N4. Drilled by W. A. Borden. 10-inch casing. Altitude about 520 ft.

Soil	8	8	Clay, gray	13	60
Sand	1	9	Sand, fine	5	65
Clay and silt	18	27	Sand and shale	5	70
Sand	3	30	Clay, hard and sandy	30	100
Shale and clay	9	39	Clay, hard, and sand	5	105
Gravel, fine, and shale	8	47			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

11S/6E-4B1. Drilled by W. A. Borden. 10-inch casing. Altitude about 540 ft.

Soil	7	7	Sand and clay	28	78
Sand and clay	21	28	Sand and gravel, fine	19	97
Shale	3	31	Mud, sloppy, and sand	13	110
Sand	9	40	Sand	1	111
Clay	6	46	Clay	7	118
Gravel, fine	4	50			

11S/6E-4D1. Drilled by W. A. Borden. 12-inch casing; perforated 69-71 ft, 102-106 ft, 147-149 ft, 263-267 ft, 269-270 ft, 288-291 ft, and 325-347 ft. Altitude about 560 ft.

Surface soil	8	8	Sand, fine	3	214
Sand	12	20	Clay and sand	5	219
Gravel, dry	3	23	Clay, brown	1	220
Sand, hard	23	46	Clay, blue	4	224
Sand and clay, hard	5	51	Sand, hard and blue	6	230
Sand, fine	2	53	Sand, hard, dry, and yellow	8	238
Clay, yellow, and sand	4	57	Clay, blue	4	242
Clay, yellow	12	69	Clay, brown	2	244
Gravel, fine	2	71	Clay, light-gray	10	254
Clay, yellow, and sand	31	102	Clay, yellow and sandy	6	260
Gravel, fine	4	106	Sand, hard and yellow	3	263
Clay	3	109	Gravel	4	267
Sand, dirty	26	135	Clay, yellow	1	268
Clay, yellow	1	136	Sand and clay, yellow	1	269
Sand, fine	11	147	Gravel, fine	1	270
"Cement"	2	149	Clay, fine and yellow	2	272
Sand, hard and yellow	10	159	"Quicksand," yellow	10	282
Clay with sand, hard	5	164	Sand, hard and yellow	6	288
Clay, light-yellow	3	167	Gravel	3	291
Clay, brown	7	174	Sand, fine	2	293
Sand and clay, yellow	7	181	Sand, yellow	1	294
Clay, yellow	2	183			
Sand, fine and dirty	8	191			
Sand, fine	3	194			
Sand	6	200			
Sand, fine	9	209			
Clay	2	211			

	Thickness (feet)	Depth (feet)
11S/6E-4D1--Continued		
"Quicksand" and clay	12	306
Sand and clay, hard and yellow	15	321
Sand, coarse, with streaks of clay	2	323
Clay, hard and brown	2	325
Sand with clay	32	357
Clay and sand with some fine gravel (size ½-inch diameter)	4	361
Clay, brown	17	378
Clay, yellow	2	380
Clay with sand, hard	4	384

11S/6E-10D3. Drilled by Desert Water Drilling Co. 8-inch casing. Altitude about 515 ft.

Silt	22	22
Clay, brown and sandy, with sand streaks, medium to coarse	25	47
Sand, coarse, with clay streaks, brown to gray	22	69
Clay, brown	45	114
Clay, with sand streaks, fine to coarse	26	140
Sand, fine to coarse; gravel; with thin clay streaks	25	165
Sand, coarse, and gravel	15	180
Clay, sandy, with streaks of fine sand	37	217
Clay, sandy, with streaks of fine to coarse sand	17	234
Clay, sandy; silt; and sand, fine	28	262
Sand, fine to coarse, with streaks of clay	27	289
Clay, sandy, with streaks of fine to coarse sand	5	294
Sand, fine to coarse	18	312
Clay, sandy, with streaks of fine sand	10	322
Sand, fine to coarse	13	335
Clay	5	340

11S/6E-11D2. Drilled by W. A. Borden. 14-inch casing; perforated 339-346 ft, 354-365 ft, 396-406 ft, 430-446 ft, and 479-489 ft. Altitude about 500 ft.

Soil	8	8
Clay	10	18
Sand and rocks	6	24
Clay, yellow	66	90
Clay, blue	6	96
Sand, fine	2	98

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
11S/6E-11D2--Continued					
Clay, blue and sand -	8	106	Clay, brown --------	13	305
Sand and pea gravel -	20	126	Clay, sandy --------	3	308
Clay, gray ----------	12	138	Gravel, fine and sand ----------	2	310
Sand, sloppy and very muddy --------	4	142	Clay, yellow -------	14	324
Clay, blue ----------	12	154	Gravel and sand, some small rocks, 1 inch in diameter	11	335
Clay, hard and blue -	11	165	Clay ----------	4	339
Clay, sticky and blue ----------	11	176	Gravel ----------	7	346
Sand, coarse --------	4	180	Clay, sloppy and sandy ----------	6	352
Clay mixed with sand	5	185	Clay, yellow -------	2	354
Clay, gray (like talc) ----------	2	187	Gravel and sand ----	11	365
Clay and sand, blue -	4	191	Clay, hard and dry and sandy silt ---	13	378
Clay, blue ----------	11	202	Silt, sand, and small gravel -----	18	396
Clay, tough and brown	28	230	Sand and gravel, small ----------	10	406
Shale, dry and blue -	15	245	Sand, dirty, with streaks of clay --	24	430
Clay, blue and dry with sand streaks -	13	258	Gravel, ½-inch size	16	446
Clay, sticky and brown ----------	4	262	Clay, streaks, sandy	33	479
Clay, hard and brown	4	266	Sand and gravel, fine ¼- to ½-inch size	10	489
Clay, yellow and sandy ----------	10	276	Clay, hard, dry, and red ----------	7	496
Clay, blue ----------	4	280			
Clay, light-gray ----	4	284			
Clay, hard and blue -	8	292			

11S/6E-15E1. Drilled by James E. Wright. 10-inch casing. Altitude about 535 ft.

"Surface" ----------	15	15	Clay and gravel ----	5	74
Shale ----------	10	25	Sand and gravel ----	6	80
Clay ----------	23	48	Sand ----------	4	84
Sand and gravel -----	16	64	Clay ----------	16	100
Sand, fine ----------	3	67	Sand and gravel ----	44	144
Clay ----------	2	69	Clay ----------	8	152

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

11S/6E-15E2. Drilled by W. A. Borden. 10-inch casing; perforated 74-79 ft, 110-114 ft, and 114-117 ft. Altitude about 520 ft.

Soil and sand -------	60	60	Clay, light-gray ---	9	104
Clay, yellow --------	14	74	Sand and gravel, 3/4-inch ---------	6	110
Gravel, ½- to 2-inch	5	79	Sand, fine ---------	4	114
"Quicksand" ---------	10	89	Clay, dark brown ---	3	117
Sand, dirty, and mud -	6	95			

11S/6E-15F2. Drilled by W. A. Borden. 10-inch casing; perforated 57-61 ft, 76-84 ft, and 108-110 ft. Altitude about 510 ft.

Soil ----------	4	4	Sand ----------	5	76
"Adobe," hard -------	2	6	Gravel, fine -------	8	84
Sand, hard and dry --	12	18	Clay, gray ---------	24	108
Clay, gray and cemented ----------	30	48	Gravel ----------	2	110
Clay, tough and brown	4	52	Shale, hard --------	2	112
Sand, dry and hard --	5	57	"Hardpan" and sand -	2	114
Gravel, fine --------	4	61	Gravel, fine -------	6	120
Shale, hard and yellow, and dirt ---	10	71	Clay ----------	2	122

11S/6E-16H1. Drilled by James E. Wright. 12-inch casing; perforated 135-205 ft, 217-270 ft, and 295-350 ft. Altitude about 540 ft.

"Surface" ----------	16	16	Sand, fine ---------	12	217
Shale ----------	4	20	Sand and gravel ----	12	229
Silt and clay, hard -	48	68	Clay ----------	4	233
Sand and gravel -----	19	87	Sand and gravel -----	32	265
Sand, fine ----------	3	90	Rock and gravel ----	4	269
Clay ----------	17	107	Sand, fine ---------	24	293
Shale and lime ------	2	109	Rock and gravel ----	4	297
Sand, fine ----------	4	113	Sand ----------	6	303
Sand and gravel -----	6	119	Sand and gravel ----	18	321
Clay ----------	8	127	Clay ----------	2	323
Sand, fine ----------	6	133	Sand and gravel ----	17	340
Sand, rock and gravel	8	141	Rock and gravel ----	10	350
Sand and gravel -----	64	205			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

11S/6E-22A1. Drilled by W. A. Borden. 10-inch casing; perforated 70-79 ft and 90-103 ft. Altitude about 540 ft.

Soil	18	18	Clay, sandy, and mud	3	82
Gravel, dry	9	27	Clay, brown	1	83
Lime and hard shells	1	28	"Adobe" and sand, dry	6	89
Sand and clay	26	54	Gravel, fine	2	91
Clay, sandy	3	57	Sand, coarse and gray, and gravel, ½-inch	13	104
Sand and gravel, fine	7	64	"Hardpan" and gravel	10	114
Clay, hard and brown	6	70	Clay and sand	14	128
Gravel, fine ¼- to ½-inch and sand	9	79	Clay	6	134

11S/6E-23D1. Drilled by W.A. Borden. 12-inch casing. Perforated 60-64 ft, 75-91 ft, and 99-119 ft. Altitude about 530 ft.

Soil and sand	18	18	Gravel, yellow	16	91
Sand, cemented	6	24	Sand, dirty	8	99
Soil, sandy	28	52	Gravel, gray	4	103
Sand, cemented	2	54	Gravel and sand, gray	16	119
Gravel	1	55	Talc, white and smooth	7	126
Sand, cemented	1	56	Clay, red	5	131
Gravel, gray	4	60	Lime and clay, red	9	140
Gravel, dirty	4	64			
Sand, dirty and yellow	11	75			

11S/6E-24E1. 12-inch casing; perforated 162-164 ft. Altitude about 480 ft.

Soil and sand	2	2	Clay, hard, with small amounts of lime	14	54
"Hard pan"	½	2½	Sand and clay, hard and yellow	20	74
Gravel, fine	6½	9	Clay and sand, hard and dry	56	130
Silt, fine, and sand	3	12			
Gravel, dry	10	22			
Clay, hard, and lime	9	31			
Sand, dirty	9	40			

	Thickness (feet)	Depth (feet)
11S/6E-24E1--Continued		
Clay, hard and red --	4	134
Sandstone and shale, broken ----------	4	138
Clay, hard, sandy and dark yellow ---	6	144
Sandstone ----------	4	148
Clay, yellow and sandy ----------	14	162
Sandstone ----------	4	166
Sandstone and shale -	3	167
Sand, fine and yellow ----------	12	179
"Quicksand," fine and very muddy ----	13	192
Sandstone, hard -----	2	194
Clay, tough and red	10	204
Clay, brown --------	15	219
Clay, gray and sandy	2	221
Clay, yellow and sandy ----------	4	225
"Cement" ----------	1	226
Sand, hard-packed --	3	229
Sand, fine ---------	2	231
Clay, soft, and sandy ----------	16	247
Clay, brown and gray	17	264
Clay, hard and red -	5	269
Clay, hard and gray	14	283
Sand, hard, cemented, and blue ---------	1	284
Clay, brown --------	8	292

11S/7E-32Q1. Drilled by W. A. Borden. 12-inch casing; perforated 267-270 ft, 300-309 ft, and 406-418 ft. Altitude about 700 ft.

Soil ----------	3	3
"Hardpan" ----------	3	6
Sand ----------	6	12
Sand and boulders ---	117	129
Clay and rock beds --	71	200
No record ----------	17	217
"Quicksand" ---------	43	260
Shale, red ----------	7	267
Sand, coarse --------	3	270
Sand, fine, and clay -	27	297
Shale, red ---------	3	300
Gravel, ¼ inch -----	9	309
Sand, fine ---------	91	400
Shale, brown -------	6	406
Gravel ⅛- to 2-inch-	12	418
Sand and clay ------	23	441
Sand and gravel, ¼- to ½-inch------	9	450
Sand, sloppy -------	10	460
Clay, yellow -------	3	463

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
11S/8E-33P1. Drilled by Rite Spot Drilling Co. 6-inch casing; perforated 266-376 ft and 386-436 ft. Altitude about 173 ft.					
Sand and cobblestones	47	47	Sand, with some clay, blue	10	310
Sand, coarse with some gravel, fine	31	78	Sand, coarse	45	355
Sand and boulders	8	86	Sand, coarse, and boulders	15	370
Conglomerate	7	93	Sand	10	380
Sand, coarse	27	120	Sand, coarse	29	409
Sand, fine	99	219	Sand, coarse, and boulders	11	420
Clay, sandy and red	21	240	Clay, sandy and gray	16	436
Sand	20	260			
Sand, coarse	40	300			

11S/9E-27E1. Altitude about 160 ft.		
No record	324	324
Sand and gypsum, soft to hard (Imperial Formation)	686	1,010
No record	916	1,926
Sandstone and shale, with gypsum, hard	708	2,634
Gypsum, shale, and sandy shale, hard	1,283	3,917
Gypsum, sandstone, shale, and sandy shale	376	4,293
No record	169	4,462
Sandstone, hard, and pink pebbles (Split Mountain Formation)	8	4,470
No record	32	4,502
Sandstone, red, and granite pebble beds	5	4,507
Conglomerate, hard, composed of granite and gypsum	24	4,531

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
12S/6E-17C2. Drilled by Butler Drilling Co. 10-inch casing 0-110 ft and 8-inch casing 110-290 ft. Altitude about 1,420 ft.					
Sand and decomposed granite	77	77	Granite	25	155
Rock	6	83	Granite, broken	90	245
Clay and decomposed granite	25	108	Granite, hard and gray	14	259
Boulders, large	7	115	Granite, broken and blue	22	281
Boulder, decomposed granite	9	124	Granite, soft and decomposed	5	286
Rock, gray granite	6	130	Granite, gray	4	290

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

12S/6E-18A1. Drilled by Acme Drilling Co. 12-inch casing 0-50 ft, 8-inch casing 0-125 ft; perforated 72-95 ft. Altitude about 1,450 ft.

Sand and boulders ---	55	55	Granite, decomposed	15	110
"Alluvial fill" and gravel ----------	17	72	Bedrock, hard ------	15	125
Clay, sandy and pebbles ----------	23	95			

12S/8E-4N2. Drilled by W. L. Kunkler. 8-inch casing. Altitude about 288 ft.

Sand and boulders ---	120	120	Silt ----------	30	200
Sand and clay -------	20	140	Silt and clay ------	40	240
Rocks, small and gravel ----------	30	170	Silt and rock ------	15	255
			Clay ----------	10	265

12S/8E-6H1. 10-inch casing. Altitude about 380 ft.

Sand and gravel, fine	60	60	Sand, loose and coarse with "birds eye" gravel ------	2	252
Clay, brown and sandy; boulders ---	35	95	Clay, light-gray with scattered boulders ---------	33	285
Sand, fine, light, and packed --------	10	105	Sand, fine and gravel	3	288
Clay, yellow --------	13	118	Clay, light-gray ---	9	297
Clay, light-brown and sandy with boulders	132	250	Clay, red ----------	3	300

12S/8E-6P1. Drilled by C. C. Scott. 10-inch casing 0-314 ft; perforated 194-314 ft. Altitude about 410 ft.

Gravel, fine and boulders ----------	60	60
Sand, hard-packed ----------	60	120
Gravel, large, loosely packed ----------	25	145
Sand and gravel, packed ----------	75	220
Boulders of decomposed granite ----------	60	280
Gravel, large and loosely packed ----------	25	305
Clay, sandy ----------	9	314

12S/8E-8K2. Drilled by W. L. Kunkler. 8-inch casing 0-283 ft. Altitude about 300 ft.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Sand, coarse and gravel, fine	113	113	Silt	15	245
Clay and sand	47	160	Clay	18	263
Clay, hard	20	180	Clay and gravel	12	275
Clay and sand	50	230	Clay, hard	10	285

12S/8E-9H1. Drilled by Mann Bros. Drilling Co. 6-inch casing 0-140 ft and 4-inch casing 140-174 ft; perforated 100-174 ft. Altitude about 185 ft.

Sand, coarse with boulders	47	47	Sand, coarse, and boulders	15	130
Sand, coarse	41	88	Boulders	12	142
Gravel, cemented	14	102	Sand, coarse, with thin streaks of clay	8	150
Sand, coarse	3	105	Sand, coarse and gravel	26	176
Boulders	7	112			
Sand, coarse	3	115			

12S-8E-9J2. Drilled by W. L. Kunkler. 8-inch casing 0-297 ft, open hole 297-318 ft; perforated 270-295 ft. Altitude about 180 ft.

Sand and silt	120	120	Sand, clean and gravel	25	295
Sand, fine and clay	110	230	Silt and clay	23	318
Silt and sand, fine	40	270			

12S/8E-9J3. Drilled by Fred Hanssler. 10-inch casing 0-250 ft; perforated 150-250 ft. Altitude about 190 ft.

Sand and boulders	55	55	Clay	3	193
Sand, boulders, and cobbles	60	115	Sand, gravel, and clay	34	227
Sand and gravel	75	190	Sand and gravel	23	250

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

12S/8E-10N1. Drilled by James E. Wright, Jr. 12-inch casing 0-222 ft; perforated 139-219 ft. Altitude about 156 ft.

Sand and gravel, dry	65	65			
Boulders, dry ------	7	72	Gravel, 2- to 3-inch	12	153
Sand and clay, dry --	8	80	Boulders ----------	5	158
Boulders, dry ------	10	90	Sand, cemented -----	1	159
Clay, sandy --------	12	102	Gravel, 1½-inch and sand, coarse -	31	190
Sand, dry and cemented ---------	4	106	Sand, packed, and "sea mud" --------	12	202
Clay and sand ------	10	116	"Quicksand" --------	8	210
Rock, sand and gravel ----------	10	126	Sand, cemented -----	2	212
Gravel, 1½- to 2-inch	15	141	Boulders ----------	10	222

12S/8E-15E1. Drilled by W. A. Borden. 10-inch casing; perforated 116-153 ft and 159-190 ft. Altitude about 160 ft.

Sand, loose --------	6	6	Gravel ----------	15	141
Sand and gravel, dry	59	65	Gravel, 2- to 3-inch-	12	153
Boulders, small ----	7	72	Boulders ----------	5	158
Clay, dry and sandy	8	80	"Cement" ----------	1	159
Boulders, dry ------	10	90	Gravel and sand ----	31	190
Clay, sandy --------	12	102	Sand, packed, and mud	12	202
"Cemented" ---------	4	106	"Quicksand" --------	8	210
Clay and sand ------	10	116	Sand, cemented -----	2	212
Rock, sand, and gravel ----------	10	126	Boulders ----------	10	222

12S/8E-15N1. Drilled by W. L. Kunkler. 8-inch casing 0-200 ft; perforated 140-170 ft. Altitude about 135 ft.

Sand and boulders --	120	120	Rocks, and gravel, small ----------	30	170
Sand and clay ------	20	140	Silt ----------	30	200

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

12S/8E-15Z1. Drilled by Milo M. Garvin. 8-inch casing 0-150 ft. Altitude about 135 ft.

Sand and boulders ---	129	129	No record ----------	21	150

12S/8E-17Z1. Drilled by Milo M. Garvin. 8-inch casing. Altitude about 209 ft.

Soil ----------	2	2	Shale, sandy and brown ----------	5	125
Boulders, gray granite ----------	8	10	Shale, brown and sticky ----------	6	131
Sand and gravel, coarse ----------	30	40	"Quicksand" --------	39	170
Conglomerate --------	13	53	Shale, blue and firm ----------	10	180
Shale, red and waxy -	32	85	Gravel, all colors of quartz pebbles	22	202
Shale, brown --------	10	95			
Shale, blue ---------	6	101			
Shale, brown and sticky ----------	19	120			

12S/8E-25Z1. Drilled by Milo M. Garvin. 8-inch casing 0-200 ft and 6-inch casing 196-245 ft. Altitude about 50 ft.

Sand and silt -------	30	30	Sand, very fine and white ----------	2	124
Clay, brown, waxy and stratified ----	45	75	Shale, sandy, and dark ----------	4	128
Sand ----------	1	76	Sand, brown --------	7	135
Clay ----------	3	79	Sand, fine and white	13	148
Sand ----------	1	80	Clay, pink and waxy	26	174
Clay ----------	6	86	Conglomerate, with fossil shells ----	11	185
Clay, blue ----------	1	87	Clay, pink ---------	17	202
"Quicksand" with mica	12	99	Gravel ----------	13	215
Clay, brown and waxy	4	103	Clay, blue, turning pink with depth --	24	239
Sand, fine ----------	3	106	Gravel and sand ----	6	245
"Quicksand," heaving	11	117			
Clay, hard, sticky, and pink ----------	5	122			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

12S/8E-26C1. Drilled by Milo M. Garvin. Altitude about 75 ft.

Gravel, small and sand, coarse to fine	94	94	Gravel, pea-size, multicolored	20	114
			Shale, red and sticky	6	120

12S/8E-27F1. Drilled by Milo M. Garvin. 8-inch casing 0-122 ft; perforated 82-122 ft. Altitude about 100 ft.

Sand and silt	28	28	Boulders, granite	43	93
Conglomerate	22	50	Sand and gravel	29	122

12S/9E-22A1. Drilled by Mann Bros. Drilling Co. 6-inch casing 0-412 ft and open hole 412-445 ft; perforated 312-412 ft. Altitude about -10 ft.

Clay, with streaks of fine sand	25	25	Gravel and rocks	13	283
Sand, coarse	22	47	Gravel, sand, coarse with shale	21	304
Sand, coarse to medium	22	69	Clay with gravel, large	12	316
Gravel with clay	21	90	Sand, medium to coarse	10	326
Sand, coarse, with streaks of clay	21	111	Sand, medium to coarse with clay	17	343
Sand, coarse with gravel	22	133	Sand, cemented	4	347
Clay	10	143	Clay, with streaks of coarse sand	15	362
Sand, coarse	10	153	Sand, coarse with clay	17	379
Clay, with streaks of coarse sand	13	166	Clay, with streaks of coarse sand	11	390
Gravel	8	174	Clay	12	402
Clay	20	194	Clay with sand, coarse	43	445
Clay, with streaks of fine sand	23	217			
Sand, fine, with streaks of clay	27	244			
Clay, with streaks of coarse sand	26	270			

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)

14S/5E-1N2. Drilled by George Putnam. 6-inch casing 0-86 ft; perforated 50-86 ft. Altitude about 2,030 ft.

Soil, silty and soft	20	20	Clay and gravel ----	6	59
Silt, with streaks of coarse sand ----	20	40	Sand and gravel ----	6	65
Sand ----------	9	49	Clay, coarse and sandy, with streaks of sand --	21	86
Gravel ----------	4	53			

14S/5E-2R1. Drilled by D. C. McCorkle. 10-inch casing. Altitude about 2,040 ft.

Sand, gravel, and clay ----------	35	35	Sand, gravel, and clay ----------	5	132
Sand, gravel, large, and clay ----------	5	40	Clay, with a little sand ----------	15	147
Sand and clay -------	10	50	Shale, blue and small gravel -----	16	163
Sand, gravel, clay and boulders, small	25	75	Sandstone, gray and soft ----------	7	170
Sand, gravel, and clay ----------	5	80	Shale, blue and firm with small gravel	25	195
Gravel, small and sand ----------	6	86	Sand and gravel, light-gray -------	45	240
Sand and silt -------	9	95	Granite, decomposed and hard ---------	10	250
Sand, with a little clay ----------	10	105	Sand and gravel ----	7	257
Sand, gravel, and silt ----------	22	127	Granite ----------	4	261

14S/6E-8E4. Altitude about 1,660 ft.

Soil ----------	4	4	Sand, clay and gravel, streaked -	48	108
Sand and clay, streaked ----------	46	50	Gravel ----------	4	112
Gravel ----------	10	60	Gravel with clay ---	9	121

	Thickness (feet)	Depth (feet)
14S/6E-8G1. Drilled by George Putnam. 9-inch casing. Altitude about 1,640 ft.		
Clay, sandy; and gravel in streaks	126	126
14S/7E-34G1. Drilled by John May. Altitude about 1,020 ft.		
Boulders	100	100
Sand	100	200

APPENDIX E

TABLE 5. PUMPING TESTS OF WELLS AND SPRINGS

Table 5.--Pumping tests of wells and springs

Source of data: D driller; DWR California Department of Water Resources; GS U.S. Geological Survey; O owner; P pump company.

Depth of well: The depth shown is the depth of the well or spring, in feet, reported by the person making the test.

Pumping rate: The pumping rate, reported in gallons per minute (gpm), does not necessarily indicate the maximum capacity of the well, but is the rate at which the well was pumped at the time of the test.

Static water level: The static, or standing, water level is the reported depth to water at the time of the test. If the static water level was not made prior to the test, the pumping water level has been shown and footnoted.

Drawdown: The drawdown is the difference, in feet, between the static water level and the pumping water level.

Specific capacity: The specific capacity is a measure of the physical condition of the well and the aquifer or aquifers which it penetrates. A well with a large specific capacity is capable of a greater yield than a well with a small specific capacity. Specific capacity is obtained by dividing the pumping rate, in gallons per minute, by the drawdown, in feet, after an extended period of pumping.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
9S/5E-5DS1	GS		1-18-66	200	(a)		
22FS1	GS		8- 1-65	b2	(a)		
22GS1	GS		8- 1-65	b1	(a)		
22KS1	GS		8- 1-65	b8	(a)		
9S/7E-28N2	GS	16.5	3-15-57	b35	15.57		
28N3	O	31	3-15-57	7	c15		
	O	31	7-22-65	8	c15		
10S/5E-25R1	DWR		8- 4-54	400			
36A1	GS			c40			
10S/6E-5F1	D	702	10- -51	2,400	274	26	92
	DWR			1,600			
8A1		624	1952	1,650	256	26	63
8P1	D	648		1,220			
9E1	GS	350	6-27-52	b500	226.55		
9F1	D	783	6- 1-51	1,600	200	30	53
	D	783	6- 5-51	2,350	200	21	112
9L1	GS	694	11- 9-54	1,200			
9N1	GS	634	6-27-52	b1,500		34	44
10L1	GS		11- 9-54	b900			
10M1	D	762	6- -51	1,550	200	12	129
	D	762	6- -51	2,300	200	18	128
15D1	GS	712	6-24-52	b1,500		25	60
	O		9-24-54	1,358	203	16	
	O		6-22-65	1,492	201	14	106
15D2	DWR	700	6-24-52	b1,500		25	60
	O		6-23-65	1,231	d216		

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
10S/6E-16N1	DWR	797	1950	b1,500		25	60
	O		6-22-65	1,168	200	31	38
17C1	GS	558	6-25-52	b900	214.21	45	20
17J1	GS		6-25-52	b1,500		25	60
	O		9-21-54	970	185	16	61
	DWR	612	1-27-55	1,260	195	36	35
17J2	D	750	11-15-55	1,000	192	33	30
	D			1,150	192	36	32
	D			1,375	192	39	35
	D			1,550	192	43	36
	D			1,675	192	46	36
	D			1,775	192	49	36
	D			1,800	192	52	35
	P		11-13-63	1,200	194	30	40
	O		6-22-65	1,152	221	35	33
17K1	GS	635	6-27-52	b800			
18R1	D		2- 5-63	1,147	191	21	55
	D		2- 5-63	1,512	191	27	56
	D		2- 5-63	1,781	191	34	52
	O		1965	280	d201		
	GS	630	7-29-65	b200			
20A1	GS	668	6-25-52	b1,500		25	60
	O		9-23-54	1,250	165	33	38
20B1	GS	662	6-25-52	b1,500		25	60
21B1	GS	672	6-24-52	b1,500		25	60
	O		6-23-65	1,429	192	34	42
21B2	GS	710	11- 9-54	b2,000			
	DWR	530	1-27-55	600	180	15	40
	O		6-22-65	1,235	198	18	69
21C1	GS	964	6-24-52	b1,500		25	60
21D1	GS	648	6-24-52	b1,500		25	60
21E1	GS	900	6-24-52	b1,500		25	60
	O		9-23-54	1,208	145	38	32
21F1	O		6- -65	449	169	40	11

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
10S/6E-21H1	GS	752	6-24-52	b1,500		25	60
21L1	GS	644	6-24-52	b1,500		25	60
21M1	GS	645	6-24-52	b1,500			
21N1	GS	900	6-24-52	b1,500		25	60
	O		9-23-54	1,150	145	53	22
	O		6-23-65	1,340	186	40	34
22B2	GS	750	11-18-53	b1,600	d157	40	40
22D1	D	735	8- -51	1,700	140	26	65
	D	735	8- -51	2,300	140	44	52
	P		11-13-63	1,500	151	38	39
	O		6-22-65	1,378			
23B1	GS	908	11-18-53	b1,100	100.2	50	22
23C1	D	680	10- 3-52	1,800	119		
24L1	O	350	7-23-65	200			
25G1	GS	516	6-26-52	3,000	89.02	25	120
25R1	GS	482	11- 9-54	b800	61.52		
28B1	GS	915	6-24-52	b1,500		25	60
28D1	GS	644	6-24-52	b1,500		25	60
28E1	P		4- -64	1,223	d233		
29B1	GS	662	6-25-52	b1,500		25	60
29K1	GS	599	6-25-52	b1,500		25	60
	O		9-23-54	1,540	135	20	77
29M1	GS	648	11-19-53	1,250	101.28	115	11
29N1	GS	385	11-19-53	b1,000	90.94	13	77
31D1	GS		11-17-53	b250			
32R1	D	495		250	105	7	36
	GS	495	7-30-65	b300			

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
10S/6E-33D1	DWR	500	11- 7-50	800			
33M1	GS	400	6-26-52	b800	69.83		
34D1	GS	426	6-26-52	b800			
34F1	GS	438	6-26-52	b1,000	44.03	25	40
34K1	O		6-26-52	550	31.71		
36Q1	D	356	4-11-51	b500			
10S/7E-19M1	O	418		2,800			
30F1	GS	560	6-26-52	c,2000	91	30	67
11S/4E-25K1	GS	1.5	9- 1-65	b1.5	a1.20		
29B1	GS	70	9- 3-65	b2	57.87		
29C1	GS	130	9- 3-65	b4	40		
33D1	O	137	11-23-53	c55	84.54		
33P1	GS	4.0	9- 7-65	b.25	(a)		
36BS1	GS		8-26-65	b.12	(a)		
36K1	GS	(e)	9- 1-65	b2	(a)		
36QS1	GS		8-26-65	b.05	(a)		
11S/5E-10NS1	GS	4	8-16-65	b2.25	(a)		
11ZS1	DWR		2- 2-59	b15	(a)		
15M1	GS	1.0	8-14-65	b.12	a.8		
15MS1	GS		8-14-65	b.5	(a)		
15MS4	GS		8-14-65	b.5	(a)		
16RS1	GS		8-14-65	b2	(a)		
16RS2	GS		8-14-65	b.25	(a)		
21H1	GS	3.5	8-14-65	.12	a3.3		

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
11S/5E-22C2	GS	5.5	8-14-65	b0.12	a3.60		
22C3	GS	5.0	8-14-65	.12	a4.7		
22CS1	GS	(e)	8-14-65	b1	(a)		
22CS2	GS		8-14-65	.12	(a)		
23KS1	GS		8-16-65	b3	(a)		
23NS1	GS		8-13-65	3	(a)		
11S/6E-1C1	GS	420	11-19-53	c1,200	28.79		
	DWR	300	1- 7-53	b1,000	26	60	17
2C1	GS	335	7-31-65	c300	45.19		
3C1	O	360.0	12- 5-53	b700	c39.0	60	12
3E1	GS	300	11-20-53	b650			
	DWR		1953	b800			
3M3	D	105		b200			
3N2	D	120		b200			
3N3	DWR	120	3-14-57	b400	20		
4B1	D	118		b300			
4M2	GS	500	12- 8-53	b800	d87.6		
4P1	GS	613	12- 8-53	c1,500			
	GS	613	8-10-65	c740			
7K1	GS		11-19-53	c125			
7K2	D	451	1956	350	216	15	23
	GS	451	8-11-65	c340			
8H1	GS	298	12- 8-53	350	128	50	7
8H2	GS	380	8-10-65	c1,200	d108		
8J1	GS	170	12- 8-53	50	134.8		

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
11S/6E-9B1	DWR	400	1-13-65	b950	49		
	GS	400	8-10-65	c380			
10D1	GS	214.5		30	d178		
10D2	GS	130	11-10-54	c350	11.83		
	GS		8- 3-65	c300	33.46		
10D3	GS	340	8- 3-65	130	49.97		
10N1	GS	386.0	12- 8-53	c1,500	c54.0		
11D1	GS	687	11-16-53	c1,600	20.5	45	36
11M1	GS	78	11-30-17	10	(a)		
11M2	GS	68	11-30-17	10	(a)		
14D3	GS	148	8- 4-65	c15	32.29		
14Z1			1917	10	(a)		
15B3	GS	204	8- 5-65	c315	45.88		
15E1	O	152	1951	c200	d44.0		
15F1	GS	122	12- 8-53	c40	45.7		
15F2	D	122	1950	b350	30		
15H1	GS	100	8- 5-65	c3	d47.53		
16H1	D	350	10-14-50	c600	47		
22A1	GS	134	11-30-53	c35	49.6		
22A2	O	280	11- -53	c700	55.0		
22B1	GS	740	8- 2-65	c180			
11S/7E-7N1	GS	82.4	11-20-53	c500	28.8		
20P1	GS	368	12- 9-53	c450	d79	8	56
30G3	GS	350	7-28-65	c250	70	20	12
30K1	GS	82.3	7-28-65	c25			
32Q1	GS	463	12-10-53	c100	c188	80	12

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
12S/4E-4C1	GS	4.0	9-12-65	b0.10	a0.81		
4C2	GS		9-12-65	b1	(a)		
4CS1	GS		9- 8-65	b1	(a)		
4F1	GS	2.5	9-12-65	.12	a+.3		
5AS1	GS		9- 8-65	3	(a)		
5GS1	GS		9- 8-65	10	(a)		
24R1	GS		9- 6-65	b500	71.1		
32E2	GS	438	9-10-65	c65			
33K1	GS		9- 9-65	3	(a)		
33L1	GS	2.0	9- 9-65	.75	a2.0		
33M1	GS	(e)	9- 9-65	.10	(a)		
12S/5E-5QS1	GS	.4	8-18-65	.25	(a)		
6G1	GS	2.1	8-25-65	.12	a1.90		
16B1	GS	7.7	8-18-65	.5	6.25		
34J3	GS	105	8-19-65	c25	48.65		
34L1	GS	101	8-19-65	c11	62.25		
34P1	GS	140	8-19-65	c12	94		
34P2	GS	256	8-19-65	c7	129.60		
12S/6E-17C1	DWR	62	3-17-53	15	40		
18A1	D	125	6- 8-64	15	62	16	0.9
			6- 9-64	20	62	23	.9
			6- 9-64	25	62	22	1
	GS		8-18-65	20	61		
18B1	DWR	5	3-17-53	3	2.5		
12S/7E-4J1	P	652		38	265	31	1
		652		72	265	36	2
		652		100	265	41	2

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
12S/8E-8K2	D	283	8-17-65	c30	240		
9J3	D	250	2-10-59	120	140	4	30
		250	2-10-59	190	140	6	32
		250	2-10-59	220	140	7	31
10N1	DWR	219	4- 1-52	b100	100		
	GS	222	12-11-53	b400	120		
10N2	P		3-24-52	400	116	12	33
10Q2	GS	218	8-24-65	c90	101.5		
15K1	GS	301	8-19-65	c1,000	120.11	4	250
22E1	GS		8-18-65	c675	109.36		
22K1	GS		8- 2-63	c1,300			
23F1	GS		8- 2-63	c600			
24Q1	GS	220	12-11-53	c500	85.6		
25Z1	D	215	1926	8	53		
	D	245	1926	30	53		
26C1	D	120	1925	20	87		
27B1	GS	214	12-11-53	c200	71.0		
27F1	D	122	1926	26	81		
12S/9E-22A2	GS	667	8- 2-63	1,450	d105.81	16	91
23D1	GS		12-15-53	c1,000	64.17	60	17
	GS		9-25-62	c1,400			
23D2	GS	656		c1,800			
13S/4E-2B1	GS	(e)	9- 9-65	2	(a)		
2C1	GS	(e)	9- 9-65	15	(a)		
2P1	GS	3.2	9- 7-65	(f)	a1.99		
4E1	GS	200	9-10-65	23	49.81		

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
13S/4E-5B1	O	255	1- -61	5	(a)		
	O	255	1- -61	15			
	GS	255	9-10-65	c1.5			
10ZS1	GS		9-10-65	c146	(a)		
14E1	GS	(e)	9- 8-65	b10	(a)		
14ES1	GS		9- 8-65	1	(a)		
14Q2	GS	118	9- 8-65	c100	85	43	2
14RS1	GS		8- 9-65	b.10	(a)		
13S/5E-6G1	GS	150	9- 5-65	c112	d78.29		
32RS1	GS		8-26-65	.12	(a)		
14S/5E-1FS1	GS		8-29-65	b15	(a)		
1N2	D	86	6- 6-57	20	57		
	GS		8-28-65	c6	69.96		
2J2	GS	86	8-28-65	c100	67.64		
4GS1	GS		8-29-65	.5	(a)		
12FS1	GS	(e)	9- 2-65	10	(a)		
12G1	GS	230	9- 2-65	c250	140.81		
22R1	GS	2.1	9- 3-65	b5	a.88		
22R2	GS	2.3	9- 3-65	b1	a1.34		
22R3	GS	2.1	9- 3-65	1	a1.09		
23N1	GS	1.9	9- 3-65	2	a.15		
14S/6E-8G1	GS	126	8-31-65	c10	57.99		
8G3	GS	118	8-31-65	c15	64.85		
10D1	GS	114	9- 3-65	c400	28.91	22	18
10D2	GS	200	9- 3-65	c1,300	43.22		
16F1	GS		9- 2-65	2	30.29		

See footnotes at end of table.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
14S/6E-18F1	GS	5.8	9- 5-65	c1.5	a5.62		
18G1	GS	90	9- 5-65	1	a+1.38		
14S/7E-18MS1	GS		9- 5-65	b5	(a)		
18P1	GS	1.5	9- 5-65	3	(a)		
18P2	GS	3.9	9- 5-65	c1	a2.70		
18P3	GS	4.5	9- 5-65	c1.5	a3.7		
18P4	GS	2.7	9- 5-65	c5	a1.76		
18P5	GS	3.1	9- 5-65	c20	a1.70		
18Q1	GS	7.7	9- 5-65	1	a6.06		
18QS1	GS		9- 6-65	b.25	(a)		
19AS1	GS		9- 5-65	.06	(a)		
25NS1	GS		4- 4-66	.2	(a)		
15S/7E-4HS1	GS		8-10-65	c10			
4M1	GS	24.2	9- 6-65	c32	14.52		
13NS1	GS	.8	4- 6-66	(f)	.6		
15S/8E-12L1	GS	360	11-26-17	2	a6		
15E1	GS		3-19-56	c2,500			
17C2	GS	87	5- 4-66	c17	64.03	7	2
17N1	GS		1959	c1,000		8	125
19G1	GS		3-19-56	c1,200			

a. Flowing.
b. Estimated.
c. Reported.
d. Pumping water level.
e. Horizontal shaft.
f. Seep, less than 1 gallon per minute.

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